



Emergency Systems

Lithonia Emergency Systems manufactures a comprehensive selection of exit signs, emergency lighting units, fluorescent battery packs and emergency power systems for a wide range of commercial and industrial applications and special environments.

Our extensive product offering includes architectural, commercial and industrial models in a choice of materials and light sources. A substantial range of remote heads, options and accessories also is available.





CONTENTS

EXIT 422	EXIT> 423	EXIT > 424	Exit Signs Architectural Emergency Units	422 432
KEXIF 425	EXIT 426	S EXIT (STATE) 427	Fluorescent Battery Packs	434
432	433	434	Emergency Lighting Units	438
436	438	439	General Spacing Guidelines	454
440	442	443	Performance Data	457
444	1 445	452	Safety Codes Outdoor Emergency Lighting	461

www.lithonia.com

Edge-lit Exits

Precise ® Intended Use Emergency operation exits use maintenancefree nickel-cadmium battery. Suitable for architectural applications where aesthetics and superior performance are required. Recessed mounting. Extruded aluminum housing recessed into wall or ceiling for top, back or LED Features end mounting capability. Injection-molded acrylic panels, ultrasonically Surface top-mount (TM) option available on stanwelded to eliminate visible hardware. dard exits and attaches directly to J-box. Can be Depth of molded letters increases toward botused for pendant mounting. tom of panel for better, more uniform illumina-Special wording available; consult factory. tion. Chevron directional indicators. Listings Long-life LEDs feature very low energy consump-UL Listed (standard). CSA or NOM Certified (see tion and rated life up to 25 years. Top Mount Options). Example: LRP BS 1 RC LA 120/277 EL N EM Ordering Information Family Number Input voltage Mounting **Back Mount** of faces LRP LED 120/277 Dual voltage (blank) Ceiling 1 Sinale or back 120/347 Dual voltage⁴ Chevron Direction 2 Double EM End ТΜ Top⁵ Graphics Specification Panel color Housing color Operation add to catalog number) Back Front letter/background Brushed (blank) (blank) Standard non-emergency LA < EXIT aluminum RW Red on white Nickel-cadmium battery EL N RC Red on clear^{1,2} w White LDC6 6V DC input for LED Item type EXIT > RA Black RMR Red on mirror^{2,3} В lamps⁴ Complete exit (blank) **GW** Green on white² BZ Bronze LDC12/48 12-48V DC input for LED < EXIT) paneland LRA (single face) GC Green on clear^{1,2} BS Brass lamps⁴ rough-in section GMR Green on mirror^{2,3} CR Chrome < EXIT EXIT DA PNL Panel assembly Directional Unfinished U only indicators <EXIT> <EXIT LRA (double face) (blank**)** No chevrons Certification LA Left UL Listed RA Right (blank) Dimensions are shown in inches (millimeters) unless otherwise noted CSA Certified CSA LRA Left and right Double-face chevrons NOM NOM Certified DA (Order separately) Panel/Trim Assembly Accessories⁶ Electrical Application Data Volts Faces Watts Amps Type LED ROUGH-IN SECTION7 Primary Circuit <u>Standard</u> 120 .087 1.5 ELA LCRIS 1 or 2 face red or green Standard 120 .178 3.1 ELA LCRIS 120 X2 1 or 2 face 120V w/ X2 option² LED Red 277 .089 1.8 ELA LCRIS 277 X2 1 or 2 face 277V w/ X2 option² 277 .178 3.4 Recessed End Mount Recessed Ceiling Mount 2.3 3.2 2.7 120 .093 Emergency Panel length Panel length: 13-1/4(336) 120 .084 Emergency ELA R LRIS 120/277 EL N 1-face red² 13-1/2(343) (from wall): Trim length: 14-3/4(375) LED Red 277 .095 ELA R 2LRIS 120/277 EL N 2-face red² Panel height: 10(254) Height (below 3.9 277 .094 ELA G LRIS 120/277 EL N 1-face green² 14-3/4(375) 8(203) .064 .059 Trim height: ceilina): 120 1.2 ELA G 2LRIS 120/277 EL N 2-face green² Standard Panel depth: 1-7/8(47) Trim width: 5(127) 120 2.0 5 lbs. (2.3 kgs.) LED Green .062 5 lbs. (2.3 kas.) 277 1.3 Weight: Weight: ELA R LRIS 120/347 LDC12/48 CSA 1 or 2-face red with LDC 12/ .061 2.3 277 48 option⁴ 120 .066 1.7 3.7 1.9 ELA R LRIS 120/347 LDC6 CSA 1 or 2-face red with LDC 6 Emergency 120 .138 .064 LED Green option4 277 277 3.8 | **5**/_^\|| Pendant mounting-(top mount only) 120 .09 1.4 Standard CSA ELA US12 12" pendant kit with brushed 120 .09 2.7 Top Mount Recessed Back Mount LED Red 347 .09 1.5 NOTES aluminum canopy 13-1/4(336) Panel length: 13-1/4(336) Panel length: 347 .09 2.8 1 Single-face exits only. Trim length: 14-3/4(375) Trim length: 13-1/8(333) Emergency Circuit Not available with CSA. 2 Total height: 11-1/2(292) Panel height: 8(203) .20 1.2 3 Mirror background simulates clear for double-face option. LDC6⁴ Depth (from wall): 1-7/8(47) Weight:5 lbs. (2.3 kgs.) .40 .12 .23 .06 2.4 Weight: 5 lbs. (2.3 kas.) 4 Only available with CSA. 1.5 2.8 12 12 Standard exits only. No rough-in section required. Not available with LDC6 or **Rough-In Section** 1.5 LDC12/48. 24 24 32 32 48 .12 .05 2.8 For additional options, accessories and fixture compatibility, see page 431. LDC12/48⁴ 13-5/8(346) Lenath: 1.5 Supplied standard with exit unless PNL suffix is specified. Order separately 4-1/2(114) .09 Width 2.8 only if necessary for early installation. When ordering rough-in separately, all .04 3-1/8(80) 1.6 Depth: options must be included with rough-in nomenclature (Example: ELA LCRIS 2.9 . 120/277 **FI**). www.lithonia.com, keyword: LRP

🖊 LITHONIA LIGHTING

LITHONIA EMERGENCY

Surface Mount Edge-lit Exits

Intended Use

Suitable for applications requiring attractive edge-lit exit signage, universal installation and low energy consumption.

Features

Extruded brushed aluminum finish lamp housing.

Clear thermoplastic panels with precision outline engraved letters measuring 6" high with 3/4" stroke.

Mirrored separator panel to simulate clear background for double-face signs. Clear panel for single-face signs.

Expected LED life up to 25 years.

Low energy consumption - less than 5 watts for 120V red AC only; and battery back-up.

Ordering Information



Electrical Application Data						
Туре	Volts	Amps	Watts			
Prim	Primary Circuit					
Standard LED Rod	120	0.2	3			
Stalluaru LED Reu	277	0.1	3			
Standard LED Groop	120	0.3	4			
Stalluaru LED Green	277	0.2	5			
Emorgonou I ED Pod	120	0.4	5			
Elliergency LED neu	277	0.2	5			
Emorgonau LED Croon	120	0.5	5			
Emergency LED Green	277	0.2	5			

Universal (top, end or back) mounting. Double face available with top or end mounting only (canopy provided).

Universal directional indicators. Field selected and attached.

Listings

UL Listed (standard).



Example: EDG 1 R 120/277 EL N

battery

light quick°XD
Express delivery products.
See page11 for details about LightQuick XD.
Description
EDG 1 R 120/277 EL N



🖊 LITHONIA LIGHTING

LITHONIA EMERGENCY

423

ED G

LED

Die-Cast Aluminum Exits

Signature[®]

LED



Ordering Information

Intended Use

Ideal for applications requiring attractive diecast aluminum signage, superior illumination and low energy consumption.

Features

Solid, die-cast aluminum housing – smallest sign on the market. Standard finish is brushed aluminum face with matte black housing. Other finishes available.

The self-diagnostic emergency signs comply with NFPA Life Safety Code and automatically tests the battery once a month for five minutes and once every six months for 30 minutes.

Completely concealed chevron directional indicator knockouts and mounting hardware.

Long-life LEDs feature very low energy consumption and rated life up to 25 years. A standard red LED exit consumes only .73 watts of electricity at 120 volts.

LEDs provide uniform graphics illumination. Meets ³/₄" letter stroke requirements. Maintains 100% brightness in emergency mode.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

Universal mounting – top, back or end. Double face available with top or end mounting only (canopy included).

US Patent No. 5,954,423.

Listings

UL Listed (standard). CSA or NOM Certified (see Options).

Example: LE S W 1 R 120/277 EL N SD



Vandal-Resistant, All-Conditions, Cast-Aluminum Exits

Intended Use

Suitable for cold weather (down to -40°C), hose down, wet location, security prisons and high-abuse applications.

Features

Ideal for high abuse, cold weather (down to -40°C with CW option) and wet location applications such as schools, security areas/prisons and parking garages.

Durable, cast-aluminum construction. Rugged housing is .250" to .525" thick.

Clear, UV-stable polycarbonate cover is .130" thick to prevent cracking or breaking.

Secured with four stainless steel Torx T20 tamperproof screws with center pin.

Completely concealed chevron directional indicator knockouts.

Ordering Information

Long-life LEDs feature very low energy consumption and a rated life up to 25 years.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

UM option offers conduit entry and top, end, or back mounting. Double face available with top or end mounting only (canopy provided).

Self-diagnostics option automatically tests battery once every month and once every six months.

Vandal-resistant magnetic test switch and status indicator provide a safe, easy means of testing.

U.S. Patent No. D383,501 and 5,611,163.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). 4X option is UL Listed.

Extreme[®]

LED

EXIT SIGNS



Example: LV S W 1 R 120/277 UM EL N



PSG9

LITHONIA EMERGENCY

426

Contemporary Thermoplastic Exits

Quantum®

LED Quick-Mount®



Ordering Information

Intended Use

Ideal for applications requiring attractive, quick installation exit signs and low energy consumption.

Features

Precision-molded thermoplastic housing is impact and scratch resistant, corrosion proof and UV-stabilized to resist discoloration.

Innovative snap-together design allows installation in less than three minutes.

Long-life LEDs feature very low energy consumption and rated life up to 25 years. Consumes less than one watt of energy.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Universal mounting capability – top, back or end (canopy provided).

Automatic recharge after discharge.

Conveniently located test switch and status indicator provide visual and manual means of monitoring system operation.

The self diagnostic emergency signs comply with NFPA Life Safety Code and automatically test the battery once a month for five minutes and once every six months for 30 minutes.

U.S. Patent No. 5,526,251, 5,611,163, 5,739,639 and 5,954,423. Other patents pending.

Listings

UL Listed (standard). CSA or NOM Certified (see Options).

Example: LQM S W 3 R 120/277 EL N



Quantum

Intended Use

Suitable for applications requiring quick-installation of both exit sign and unit equipment. Attractive 10-inch tall, streamlined design is great for above-the-door applications and other tight fits.

Features

UV-stabilized thermoplastic housing resists discoloration from sunlight and man-made sources.

Quick-Mount® installation. Innovative, snap-together design allows for installation in less than three minutes.

Factory assembled and prewired.

Replaceable chevron directional indicator knockouts for choice of direction.

Side-mount lamp heads reduce overall height, allowing for easy fit over doorways.

Ordering Information



Long-life LEDs feature very low energy consump-

Sealed, maintenance-free, lead-calcium battery

standard. Nickel-cadmium battery optional.

Top, back or end mounting (canopy included).

Optional high-output battery (HO) to power a re-

U.S. Patent No. 5,611,163, 5,646,502, 5,526,251, 5,797,673 and D379,373. Other patents pending.

Listings

UL Listed (standard). NOM Certified (see Options).

tion and rated life up to 25 years.

mote head or exit.

NOTES:

- 1 Special wording available on panel face, white housing only, see page 430.
- 2 Choice of H or N. Not available with both
- 3 Choice of H or HO. Not available with both
- 4 For additional accessories, see page 431.

ligh	t q L	lick	
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Express delivery products.

See page11 for details about LightQuick XD. Description

LHQM S W 3 R 120/277

LHQM S W 3 G 120/277

Accessories ⁴	(Order separately)
ELA MR24 K0606	Compact MR24 remote head (6W, 6V krypton lamp)
ELA MR24 K0906	Compact MR24 remote head (9W, 6V krypton lamp)
ELA NX H0606	NEMA 4X sealed-beam remote fixture (6W, 6V halogen lamp)

HO

RO

High-output leadcalcium battery³

Less lamp heads

LHQM	NA	NA	NA	12 W	10.8 W	24.0 W	
Family	Standard	Combo/ ni-cad battery (N)	Combo/ halogen Jamps (H)	Combo/ high- output battery (HQ)	Combo/ no heads (R0)	Combo/no heads (RO) & high-output battery (HO)	
Remote Output Capacity							

		Electrical Application Data							
		Electrical				Stand	ard Lamp		
AC Lamp		AC Input		Output	0	utput Wat	ts	Catalog	
Description	Volts	Amps	Watts	Volts	1.5 hrs.	2 hrs	3 hrs.	Number	Watts
LED Red	120	.23	3.3	6	14	10	7	MP24 K0606 5 4	54
	277	.23	3.3	6 (HO)	24	18	12	MIN2 - N0000	5.4
LED Green	120	.23	3.3	6	14	10	7		F A
	277	.23	3.3	6 (HO)	24	18	12	WK24 KU6U6	5.4



®

LED Quick-Mount®



Example: LHQM S W 1 R 120/277

www.lithonia.com, keyword: LHQM

🖊 LITHONIA LIGHTING

Economy-Grade Emergency Lighting



White thermoplastic 6-volt self-contained

emergency lighting unit

BWU

Family

White thermoplastic 2-

combo, single stencil face

headed LED exit/unit

with extra face plate

BWC

428

Ordering	Information

13-1/8' (333.2)

23" (584.2)

11-3/4" (298.4)

> 16-1/2' (419.1)

Ordering Information





10-1/8" (257.2)

2-5/8"

(66.68)

1

| 5" (127)

4" (101.6)



Example: BWC R

R Red

Letter color

G Green

Example: BWE R EL N



Electrical Application Data			
Туре	Volts	Amps	Watts
	Prima	ary Circuit	
Standard	120	.05	.71
LED Red Exit	277	.06	.92
Standard	120	.05	.66
LED Green Exit	277	.06	.70
Emergency	120	.05	.71
LED Red Exit	277	.06	.92
Emergency	120	.05	.66
LED Green Exit	277	.06	.70
LED Red Combo	120	.23	3.3
LED Neu Combo	277	.23	3.3
LED Green Combo	120	.23	3.3
LED GIEEN COMDO	277	.23	3.3
Emergency	120	.05	5.7
Lighting Unit	277	.02	5.5

light**quick°XD**

Express delivery products. See page11 for details about LightQuick XD. Description

BWU
BWCR
BWE R EL N
BWE G EL N
BWER

consump-

Intended Use

Suitable for applications requiring heavy-duty steel exit signage such as a light industrial ware-house or manufacturing facility.

Features

Heavy-gauge, die-formed steel housing. Impact-

Knockout chevrons for choice of direction.

resistant color panels.

Ordering Information

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Universal mounting — top, back or end (canopy included).

Listings

UL Listed (standard). NOM Certified (see Options).



Example: LX S W 1 R 120/277 EL N



www.lithonia.com, keywords: LX and D

EXIT SIGNS

R

LITHONIA EMERGENCY

Lithonia offers special signage in the Signature[®] and Quantum[®] families. Most special signage is available with red or green LED lighting. See below for special wording ordering guide.





🖊 LITHONIA LIGHTING

www.lithonia.com

Exit Accessories



Batteries ELB 06042 ELB 0607 ELB 0610 ELB 1P201N ELB 4814N ELB 0604N ELB 0701N ELB 1201N ELB 1P201N2 lead-calcium lead-calcium lead-calcium nickel-cadmium nickel-cadmium nickel-cadmium nickel-cadmium nickel-cadmium nickel-cadmium L: 2-3/4 (70) L: 4 (102) L: 6 (152) L: 3-1/2 (89) L: 3-7/8 (98) L: 5-1/4 (133) L: 1-5/8 (43) 1: 1-5/8 (43)L: 1-5/8 (43) W: 1-7/8 (48) W: 1 (25) W: 1 (25) Dia: 3/4 (19) W: 1-1/2 (38) W: 2 (51) W: 2-3/8 (60) Dia: 3/4 (19) Dia: 3/4 (19) Family H: 4-1/8 (102) H: 6 (152) D: 4 (102) H: 1-3/4 (44) H: 2-3/8 (60) H: 1-3/4 (44) OM EL/X EL 9 LHQM¹/LQM EL² LHQM³/HQM 7 LX EL N LQM EL N⁴/LE EL N⁵ LV EL N 8 10 LQM ELN⁶ Battery available

Not all batteries and equipment are shown. Consult factory for additional requirements. All dimensions are **inches (millimeters)** unless otherwise noted.

NOTES:

- 1 Series 15-16. 6 Series 30.
- 2 Series 10-12. 7 With HO option.
- 3 Series 10-14. 8 Single face, no options.
- Series 20-23.
 With N option.
 Series 20-21.
 Double face, no options.





(blank) Battery not available

Die-Cast Architectural Emergency Lighting Units

Affinity [®]	Intended Use Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ide- al for applications requiring attractive unit equipment. Features	Maintenance-free lead-calcium battery (as a standard). Nickel-cadmium optional. Dual-voltage input capability (120/277V). Low-profile, integrated test switch/pilot light located below the lens.	
	Compact, low-profile, architectural design with die-cast aluminum housing that has a contempo- rary brushed nickel-plated finish. Other available	Remote version available for exterior use. Ideal for exit discharge applications.	
	finishes are texturized polyester powder coat paint in white, black and dark bronze. U.S. Patent No. D468,046. Two 6W wedge-base xenon lamps offer 55 per- cent more light output than standard incandes- cent lamps. Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors and multi-faceted, highly transmissive refractor that significantly improve photometrics.	Listings UL Listed. Wet location (EXT) listed. Damp loca- tion (PREM, EXT) listed. Cold Weather (EXT) listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards.	
Ordering Information		Example: AFN BN PREM	
Family Input voltage	Finish	Option packages	
AFN (blank) 120/277V	WWhite(blank)Features lead-calcium batBBlackPREMFeatures nickel-cadmium laBNBrushed nickelEXTFeatures high-temperatureDBDark bronze1diagnostics, damp and wet	tery battery, self-diagnostics and damp location 0° to 50°C (32° to 122°F) e nickel-cadmium battery listed from -18° to 50°C (0° to 122°F), self- location	

NOTES:

LITHONIA EMERGENCY

432

1 Dark bronze can only be ordered with the exterior package. This finish is not available on other units.

For fixture performance charts, see page 459.



Dimensions are shown in **inches (millimeters)** unless otherwise noted.



Accessories	ories (Order separately	
ELA AFNR DB	Remote fixture (less batteries and electronics) to be powered by 6V battery equipment as part of an emergency lighting system (listed from -40°C to 60°C)	

	Electrical Application Data					
	AC Input Output Output Watts					
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs	
AFN	120 277	.11 .12	1.1 1.3	6	12	
AFN PREM	120 277	.15 .14	1.4 1.4	6	12	
AFN EXT	120 277	.23 .25	21 35	6	12	

Intended Use

Provides 90 minutes of illumination for the rated wattage upon the loss of AC power. Ideal for applications that require ensconced emergency lighting in wall or ceiling.

Features

Trim and door housing panels are finished in durable white textured powder coated paint. Can be wallpapered or field painted. Trim and panel doors lay flush with mounting surface. No exposed hardware. Low profile recessed test switch and status indicator configuration minimizes exposed interfaces. Rugged, 22 GA galvanized steel box with (3) 3/4" knock-outs. Galvanized bar hangers span up to 30" on center.

Two MR16 halogen 12W to 75W lamps are fully adjustable to meet aiming requirements. Lamps are ensconced until activated in the emergency mode.

Ordering Information

Fa	mily		Lamp type ¹
VEL1224	12V, 24W	H1212	12W/12V halogen MR16
VEL1240	12V, 40W	H2012	20W/12V halogen MR16
VEL1270	12V, 70W	H3512	35W/12V halogen MR16
VEL12100	12V, 100W	H5012	50W/12V halogen MR16
VEL12150	12V, 150W	H7512	75W/12V halogen MR16

Sealed, maintenance-free lead-calcium battery
with capacity of 24W to 150W for 90 minutes of
emergency operation. Optional nickel-cadmium
battery. Low voltage disconnect prevents exces-
sive deep discharge that can permanently dam-
age the battery.

Dual voltage input capability (120/277V). Precision-controlled motor and cam system ensures reliable extraction and retraction of light sources. Single, multi-chromatic LED indicator to display two-state charging, test activation and four-state diagnostic status. Standard **self-diagnostic** feature tests the unit for 30 minutes every 28 days without turning lamps on. Provided with an **IR receiver** for remote testing. Requires the ELA RTVEL remote transmitter (see accessories). Selectable 30-second or 90-minute manual testing.

Listings

UL Listed. Meets UL924.

Options N Maintenance-free nickel-cadmium battery

TD Time delay LRIS Less rough-in section²

Concealed Emergency Lighting Units

Velaré[™]



Example: VEL1270 H3512 N

		EL (1 A	l' d' D			
	Electrical Application Data					
		AC Input		Output	Output Watts	
Туре	Volts	Amps	Watts	Volts	1-1/2hr.	
		Prime	ary Circuit			
VEI 1224	120	.20	30	12	24	
VEL1224	277	.20	30	12	24	
VEI 1240	120	.20	30	12	40	
VEL1240	277	.20	30	12	40	
VEI 1270	120	.20	30	12	70	
VEL12/0	277	.20	30	12	70	
VEL12100	120	.20	30	12	100	
	277	.20	30	12	100	
VEL 12150	120	.20	30	12	150	
VELIZIOU	277	.20	30	12	150	

Accessories	(Order separately)
ELA RTVEL	Remote transmitter with selectable 30-second or 90-minute testing ³ .
ELA VEL RIS	VEL rough-in section (supplied standard with fixture unless LRIS suffix is specified) ships with mounting hardware only. Order ELA VEL RIS if needed for rough-in phase of construction.
ELA VEL TSPLP	VEL remote test switch/pilot light.

 1
 Two lamps provided. Total lamp load cannot exceed the fixture capacity rating.

 2
 VEL rough-in section ships standard with fixture unless LRIS suffix is specified.

Requires ELA VEL RIS accessory for installation.

3 Minimum one per job required.



Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

VEL1224 (12V, 24W) – 20lbs. VEL1240 (12V, 40W) – 20lbs. VEL1270 (12V, 70W) – 26lbs. VEL12100 (12V, 100W) – 26lbs. VEL12150 (12V, 150W) – 32lbs.

Rough-in opening: 13-1/2(341)X6-3/4(170) Overlap trim: 14-7/16(365)X7-5/8(193)



🖊 LITHONIA LIGHTING

PSG9

NOTES:

www.lithonia.com, keyword: VEL

LITHONIA EMERGENCY

Reduced-Profile Fluorescent Battery Packs, Linear Fluorescent Fixtures

Dowor	Intended Use	cadmium batteries.	
	Factory- or field-installed inside or outside (field only) a fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lu-	Patent-pending Quick-Disconnect connector sy allows for quick and easy replacements at end without re-wiring.	
Sentry	mens, providing optimum glare-free illumina-	Patents pending. U.S. patent No. 5,814,971.	
•	tion of normal power.	Listings	
NEW	Features	UL Listed. Damp location listing available.	
	Mounts concealed within fixture wireway for clean appearance and protection against vandalism.		
PS300 mm	Reduced-profile footprint fits in the tightest ap- plication. Durable thermoplastic/metal housing resists impact, scratches or corrosion.		
DISCUNNECT	Sealed, maintenance-free, high-temperature nickel-		
Ordering Information		Example: PS1400QD S	
PS300QD Reduced profile, Quick-Disconnect, 300 lumen	Options	Factory installation ^{3,4}	
PSQ500QD Reduced profile, Quick-Disconnect, 15-minute	SD Self-diagnostics ¹	EL PS300QD installed ^{3,4}	

PS600QD PS1400QD



output

output

installation, 500 lumen output

Reduced profile, Quick-Disconnect, 600 lumen

Reduced profile, Quick-Disconnect, 1400 lumen

lightquick[®]XD Express delivery products.

See page11 for details about LightQuick XD.

Description	
PS300QD	
PSQ500QD	
PS1400QD	

Dimensions are shown in inches (millimeters) unless otherwise noted.

174

PS300QD/PSQ500QD/PS600QD/PS1400QD Cross section end view - 2.189



em life

SD

fixtures	0-50°C	(32-122)	'F)²

	Factory installation ^{3,4}
EL	PS300QD installed ^{3,4}
EL5	PSQ500QD installed ^{3,4,5}
EL6	PS600QD installed ^{3,4,5}
EL61LP	PS600QD one-lamp operation installed ^{3,4,5}
EL14	PS1400QD installed ^{3,4,5}
EL141LP	PS1400QD one-lamp operation installed ^{3,4,5}

NOTES:

Length: 13.8(351)-PS1400QD

Length: 9.5 (241) – all others

PS300QD: 1.0 lbs. (0. 45 kgs.)

PS500QD: 1.0 lbs (0.45 kgs.)

PS600QD: 1.5 lbs (0.68 kgs.)

PS1400QD: 2.0 lbs (0.9 kgs.)

Width: 2.19(59.5)

Height: 1.18(29.9)

Shipping weight

DW

1 Self-diagnostics (PSSD) module ships separately. See PSSD spec sheet for details. Not available on PS300QD.

UL Listed for use inside damp or wet location listed

- 2 Not available with Quick Disconnect wire harness. See below for housing dimensions
- 3 To order a factory-installed battery pack, add suffix to fluorescent fixture catalog number.
- 4 Add DW to factory installed suffix to receive as wet or damp location listed, depending on the fixture. Applies to EL, EL5, EL6, EL14. Example: EL14 DW.
- 5 Add SD to suffix to receive self-diagnostics version. Example: ELSSD. Applies to EL5, EL6 and EL14.

Special voltages/frequencies available; consult factory. For lamp/ballast compatibility, see page 437. For application guidelines and fixture performance data, see pages 454 and 460.

Electrical Application Data				
		AC Input		
Туре	Volts	Amps	Watts	
PS300QD	120/277	.29	2.5	
PSQ500QD	120/277	.29	2.5	
PS600QD	120/277	.29	3.0	
PS1400QD	120/277	.29	3.5	

www.lithonia.com, keyword: PS

Accessories	(Order separately)
PSSD	Field installable self-diagnostic modules for PSQ500 DW, PSQ500QD, PS600 DW, PS600QD, PS1400 DW or PS1400QD
ELA TSPLP	Remote or replacement test switch/pilot light and mounting plate PS300, PS300QD, PSQ500, PSQ500QD, PS600, PS600QD, PS1400 and PS1400QD.
ELA TSPLP SD	Remote or replacement test switch/pilot light and mounting plate for self-diagnostics PSQ500SD, PSQ500QDSD, PS600SD, PS600QDSD, PS1400SD and PS1400QDSD
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSMK	External mounting kit
ELA PSMKSD	External mounting kit for self-diagnostics module
ELA PSDMT	External mounting tray

PS300 DW / PSQ500 DW / PS600 DW / PS1400 DW



Length: 13.8(351)-PS1400DW Length: 9.5(241)-allothers Width: 2.5(63.5) Height: 1.675(41) Shipping weight PS300DW: 1.4 lbs. (0.6 kgs.) PS500DW: 1.0lbs(0.45kgs.) PS600DW: 1.8 lbs (0.8 kgs.) PS1400DW: 4.0 lbs (2.3 kgs.)

PSG9

Fluorescent Battery Packs, Downlighting Fluorescent Fixtures

Intended Use

Factory- or field-installed on fluorescent downlighting fixtures to operate lamps at an initial light output of 20% to 85% of full lumen rating, providing optimum glare-free illumination for a minimum of 90 minutes upon interruption of normal power.

Features

PSDL1 operates one two-pin 18W or 26W quadtube compact fluorescent lamp. PSDL1 2LP operates 2 two-pin (13-26W) quad-tube fluorescent lamps.

PSDL2 operates one two-pin 7W, 9W or 13W quad-tube compact fluorescent lamp. PSDL3 op-

Ordering Information

- PSDL1 Bi-pin 18-26W guad-tube lamps
- PSDL2 Bi-pin 7-13W twin-tube or quad-tube lamps
- PSDL3 Four-pin 9-42W quad-tube or triple-tube lamps

erates one or two four-pin twin-tube (9-13W), triple-tube (18-42W*), guad-tube (13-26W) or 2D compact fluorescent lamp(s). *42W tripletube is one lamp only.

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is permanently sealed steel enclosure.

Options

Damp location listed 0-50°C (32-122°F)¹

Operates (2) two-pin quad-tube lamps (PSDL1)²

Self-diagnostics¹

SD

DL

2LP

Listings

UL Listed. Damp location listing available.

Power Sentry®

BATTERY PACKS



Example: PSDL3 SD

(Order separately)

Accessories

PSSD

- EL PSDL1/PSDL2/PSDL3 installed, compact fluorescent ELR
- with remote pilot light/test switch

NOTES:

- 1 Available on PSDL3. Self-diagnostics (PSSD) module ships separately. See PSSD spec sheet for details
- 2 Must specify PSDL12LP for two-lamp version. The PSDL3 product may be wired for a 2-lamp operation as a standard feature, see wiring diagrams. 2LP option does not need to be specified for the PSDL3.
- 3 To order a factory-installed battery pack, add suffix to fluorescent downlighting fixture catalog number. PSDL1/PSDL2/PSDL3 will be determined automatically based on ballast and lamp type. Add 2LP (example: EL2LP) to suffix to specify 2-lamp emergency operation for all 4-pin or 2-pin quad lamps. (Available for Gotham[®] downlighting and Lithonia downlighting.)

For lamp/ballast compatibility, see page 437.

	Electrical Appl	ication Data	
	Licenterrippi	AC Input	
Туре	Volts	Amps	Watts
PSDL1	120	.275	3.5
	277	.255	3.5
כוסס	120	.275	3.5
PSULZ	277	.255	3.5
	120	.27	3.3
PSDL3	277	.25	3.2

Dimensions are shown in inches (millimeters) unless otherwise noted PSDL1 and PSDL2

Cross section end view



Length: 10-5/8(270) Shipping weight: 2.14lbs.(.9kgs.)



www.lithonia.com, keyword: PSDL



light**quick[®]XD** Express delivery products. See page11 for details about LightQuick XD. Description PSDL3



🖊 LITHONIA LIGHTING

- Factory installation³
- PSDL1/PSDL2/PSDL3 installed, compact fluorescent

ELA TSPLP	Remote or replacement test switch/mounting plat for PSDL3
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSDMT	External mounting tray (PSDL1, PSDL2, PSDL3)
ELA RTS3	Remote test switch and pilot light for PSDL1 2LP

Field installable self-diagnostic module for PSDL3

Specialty Fluorescent Battery Packs, Linear Fluorescent Fixtures

Power **Sentry**[®]

BATTERY PACKS



Ordering Information

PSL400	Low-profile, 350-450 lumen output
PSL550	Low-profile, 390-700 lumen output
PS600C	Two-hour emergency operation
PSL600	Low-profile, 725-1325 lumen output
PS3000	Full light output
PS48	Central 48VDC interface

Intended Use

Factory- or field-installed inside or outside (field only) a fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lumens, providing optimum glare-free illumination for a minimum of 90 minutes upon interruption of normal power.

Low profile footprint and T5 lamp compatibility make the PSL550 and PSL600 battery pack ideal for use in T5 direct/indirect fixtures.

Features

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is 20-gauge steel or permanently sealed	
steel.	

Listings

UL Listed.

Example: PSL600

Accessories	(Order separately)
ELA RTS2	Remote test switch and pilot light (PS3000)
ELA RTS3	Remote test switch and pilot light for the PSL400, PSL550, PSL600 and PS600C
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSDMT	External mounting tray (PS3000)
ELA PSRME	Remote mounting enclosure

NOTES:

1 To order a factory-installed battery pack, add suffix to fluorescent fixture catalog number.

For lamp/ballast compatibility, see page 437.

- Factory installation 1 EL55 PSL550 installed PS600C installed EL6C
- **EL48** PS48 installed

21 5(546 1)

1.18(30)

1.18(30)

3.3 lbs

PSI 400 installed ELSC4 PSL600 installed EL65

Electrical Application
AC Inp

Electrical Application Data								
	AC Input							
Туре	Volts	Amps	Watts					
DCI 400	120	.1	1.5					
F3L400	277	.1	1.5					
DCIEEO	120	.18	3.2					
F3L330	277	.18	3.2					
DCCOOC	120	.28	3.5					
FJOOOC	277	.28	3.5					
	120	.18	3.0					
FJLOUU	277	.18	3.0					
DC2000	120	.09	9.6					
P33000	277	.04	10.2					
DC 40	120	.28	3.5					
1 240	277	.09	0.5					

Dimensions are shown in inches (millimeters) unless otherwise noted

PS600C/PS48 Cross section end view PS3000 Cross section end view PS600(· 9 4(238) 15-3/8(391) Length: Lenath: 5-5/8(143) PS48: 9.4(238) Width: Width: 2-3/8(60) Height: 2(51) PS600C: 1.5(38) Weight: 10.3 lbs. (4.7 kgs.) Height: PS48: 1.5(38) PS600C/PS48: 2.5lbs.(1kg.) Weiaht:

PS	L400
Crosssect	tion end view
Length:	14.1 (358)
Width:	1.5(38)
Height:	1.0 (25)
Weight:	1.9 lbs. (.9 kgs



PSSD



🖊 LITHONIA LIGHTING

Intended Use

Designed to perform self-diagnostic testing for five minutes every month and thirty minutes every six months. May be factory- or field-installed as part of the test switch/pilot light assembly with the PSQ500 DW, PSQ500QD, PS600 DW, PS600QD, PS1400 DW, PS1400QD and PSDL3.

Accessories	(Order separately)
PSSD	Self-diagnostic module for PSQ500QD, PS600QD, PS1400QD and PSDL3.
PSSD DW	Self-diagnostic module for PSQ500 DW, PS600 DW, PS1400 DW and PSDL3 DW. DW version is UL approvied for use in wet and damp location listed fixtures 0°-50° C.
ELA PSMKSD	External mounting kit for self-diagnostics module.

Features

Single multi-chromatic status indicator and audible beep to display three-state charging, test activation and four-state diagnostic status. Audible beep can be permanently deactivated in the field. Quick connect terminal allows for fast and easy installation.

www.lithonia.com, keyword: PS

Power Sentry® Lamp/Ballast Compatibility

UL Listed Products

LampType	Wattage	PS300QD	PSQ500QD	PS600QD	PS1400QD	PSL400	PSL550	PSL600	PS600C	PS3000	PS48	PSDL1	PSDL2	PSDL3
Lumens		300	450-550	600-700	1100-1400	350-450	390-700	900-1325	600-700	1500-3000	*	500-950	350-650	580-1048
24"- 48″ T5	14-28			1	1		1	1		1				
24"- 48" T5HO	24-54			1	1		1	1		1				
U-Lamp T8	16-32	1	1	1,2	1,2	1				1	1,2			
24"- 48" T8	17-32	1	1	1,2	1,2	1		1	3	1	1,2			
48 [″] - 60 [″] T8	32-40						1	1			1			
48″ T8HO	44						1	1						
60"- 96" T8	40-59			1	1					1				
96 HO T8	86			1	1									
Circline T9	20-40	1		1	1					1,2	1			
U-lamp T12	34-40	1	1	1,2	1,2	1				1,2	1,2			
24"- 48" T12	20-40	1	1	1,2	1,2	1			3	1,2	1,2			
60"- 96" T12	50-75			1	1					1	1			
24"- 48" T12HO	35-60			1	1					1	1			
60"- 96" T12HO	70-110			1	1					1	1			
24"- 48" T12VH0	74-115			1	1					1	1			
60 [″] - 96″ T12VHO	135-215			1	1					1	1			
PL Twin-Tube (2-Pin)	9-13												1	
PL Quad-Tube (2-Pin)	13-26											1,4		
PL Twin-Tube (4-Pin)	9-13				1						1,2			1
PL Quad-Tube (4-Pin)	13-26				1,2					1	1,2			1,2
Triple-Tube (4-Pin)	18-32				1,2	1				1	1			1,2
Triple-Tube (4-Pin)	42				1						1			1
Long Compact (4-Pin)	18-40	1	1	1		1				1	1,2			
Long Compact (4-Pin)	36-55						1	1			1,2			

NOTES: * Based on the lumen output of the lamp; provides full light output. 1 One-lamp emergency operation for 1, 2, 3 or 4-lamp ballasts.

2 Two-lamp emergency operation for 2, 3 or 4-lamp ballasts.

3 One-lamp, 2-hour emergency operation for 2, 3 or 4-lamp ballasts.

4 2 LP option required for 2-lamp emergency operation in fixtures with two or more lamps.

Contemporary Thermoplastic Emergency Lighting Units

Quantum®

ELM/ELM2 Quick-Mount®



Ordering Information

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

White, compact, low-profile contemporary design with high-impact thermoplastic housing that is impact-resistant, corrosion-proof and UVstable to resist discoloration from artificial light sources or sunlight.

Maintenance-free lead-calcium battery.

Two 5.4W wedge-based krypton lamps offer 32 percent more light output than standard incandescent lamps.

Patented MR24, multi-faceted reflector (ELM2) significantly improves photometric performance; 60 to 100 percent more light delivered

to the path of egress. Dual-voltage input capability (120/277V). Edge connectors on printed circuit board ensure long-term durability.

Unique track-and-swivel design permits full range of lamp head adjustment (ELM2). Universal J-box mounting pattern. Tool-less access for maintenance. Flexible conduit entry provision on top of the unit.

Quick-Mount[®] snap-together construction permits installation in three easy steps in less than three minutes.

Vandal-resistant ELA VS polycarbonate shield available.

Wall or ceiling mounted.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: ELM2 SD



Туре	SD ^{1,2}	B ^{1,2,3}	DL ^{1,3}	CSR ^{1,4}	CSA ⁵	NOM ^{1,2}	Lamp Number	Watt/ Lamp
ELM							K0606	5.4
ELM2							MR24 K0606	5.4
							Option avail	able

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted.

	ELM2	
11-1/2(292)	Width:	12-1/2(317)
3-3/4(95.25)	Depth:	3-3/4(95.25)
5(127)	Height:	5(127)
3.0 lbs. (1.4 kgs.)	Weight:	4.0 lbs. (1.8 kgs.)







🖊 LITHONIA LIGHTING®

Electrical Application Data AC Input **Output Watts** Output Volts 1-1/2 hrs Watts Туре Amps Volts 2 hrs 3 hrs 4 hrs 120 1.2 .11 12 6 ELM 277 .12 1.5 120 .11 1.2 6 12 ELM2 277 .12 1.5

(blank) Option not available

ELM/ELM2 Quick-Mount[®] Installation:

- 1) Feed leads through mounting plate and make connections to AC power supply.
- Align mounting plate on J-box and secure with screws.
- 3) Connect battery and snap housing onto mounting plate.

NOTES:

- 1 Not available with CSA option
- 2 Available on ELM2 only.
- 3 Black ELM2 not available with damp location option.
- 4 Available on ELM only.
- 5 See CSA diagram for special housing dimensions.

For additional lamp heads, remote fixtures, options and accessories, see pages 449-451.

For application guidelines and fixture performance data, see pages 455 and 458.

www.lithonia.com,keyword: ELM

PSG9

 ELM Width

Depth

Height

Weight

ELMCSA

Depth:

Height[.]

Weight:

Width: 11-3/4(298)

2-3/8(60)

3.0 lbs. (1.4 kgs.)

5(127)

Contemporary Thermoplastic Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

White, compact, low-profile contemporary design with high-impact thermoplastic housing that is impact-resistant, corrosion-proof, UV-stable to resist discoloration from artificial light sources or sunlight.

Maintenance-free lead-calcium battery (standard).

Two 9W wedge-based krypton lamps offer 48 percent more light output than standard incandescent lamps.

Patented MR24, multi-faceted reflector significantly improves photometric performance; 60 to 100 percent more light delivered to the path of

Ordering Information

egress. Universal voltage input capability (120 through 277V, 50 or 60 Hz).

Unique track-and-swivel design permits full range of lamp head adjustment. Universal J-box mounting pattern. Tool-less access for maintenance. Flexible conduit entry provision on top of the unit.

Patent pending Quick-Mount® features simplify installation.

Vandal-resistant ELA VS2 polycarbonate shield available.

Wall or ceiling bracket included as a standard feature. Quantum® Series ELM6-12 will power a variety of remote devices up to rated wattage of fixture.

Listings

UL Listed. NOM Certified (see Options).

R Quantum

ELM 6-12 Quick-Mount®



Example: ELM654 H2006 SD

			_			_		_					(0		(1)						
								_	Acce	ssories	T Da		(0	rder se	parately)			liahte			
Family	Lamp type	e			0p	otions					KI KE	mote test	er (lasel	() 1	(1 /0			Fynress			
ELM618 6V,18W	6-volt MR24 compo	<u>osite</u>		SD	Self-	diagn	ostics ⁴	5	I	ELA VS	2 P0 thi	lycarbona ck)	te vanda	I shield	(1/8"		Soo noon 11 feet				
ELM627 6V,27W	(blank) 9W/6V k	rypton ¹		В	Black	k hous	sing ⁶		ELA	WG2	M Wi	reguard				- F		See page I I for d			
ELM654 6V,54W	H1206 12W/6V	halogen ²		Ν	Mair	itenai	nce-fr	ee	EL	A MR2	. 4 Co	mpact MR	24 remo	ote lamp	head			Description			
ELM1254 12V,54W	H2006 20W/6V	halogen ³		TD	Time	u bau dela	v ⁵				EL	A MR24 K	0606 (5.	4W,6V I	(rypton)			ELM618			
	(blank) 9W/12V	krypton		RT	Rem	ote te	st ⁸				EL/	A MR24 K	0906 (9\	N,6V kr		ELM627					
	H1212 12W/12	/ halogen		RO	Less	heads	s ⁹				EL/	A MR24 H	1206 (12	2W,6Vh M 15V L	ELM1254						
	H2012 20W/12	/ halogen		DL	Dam	p Loc	ations	7,10			EL/ FL/	4 MR24 N A MR24 H	1717 (9) 1717 (17	/V, I Z V K DW 12V	rypton) halogen)						
					-10°	to 40	°C (50	° to			EL	A MR24 H	2006 (20)W.6V h	alogen)		ELA	AG 12 Outek May			
			N	ом	NOM	F) I Cert	ified ¹¹				EL	A MR24 H	2012 (20)W,12V	halogen)			Food loads th			
							incu				_		-			1	''	make conner			
		Туре		Hsg. Size	SD⁵	B ⁶	N ⁷	TD ⁵	RT ⁸	RO ⁹	DL ^{7,10}	NOM ¹¹	Lamp	Number	Watt/ Lamp		2)	Align mount			
		ELM618	3	S									MR24	K0906	9		3)	cure with scr Snap housing			
		ELM627	7	S									MR24	K0906	9		Ĺ	•			
		ELM654	1	L									MR24	K0906	9	Drav	vings	are for dimensional de			
NOTES:		ELM125	54	L			•						MR24	K0912	9	conf note	figurat ed.	tion. Dimensions are s			
1 Available on ELM618, ELM	1627 and ELM 654 only.	ELM127	72	L									MR24	K0912	9						
3 Available on ELM654 only	ELINIO3401119. 7.												Opti	ion avai	lable	ELM	618				
4 Available on ELM1254 and	ELM1272 only.											(blan	k) Opti	ion not	available	Wi De	dth: nth	12.79"(324) 4 73"(120)			
5 When ordering ELM618	and ELM1254, SD and TD 1	must be														Hei	ght:	7.01"(178)			
ordered with the Noption	1. FLM1272 only							_								Wei	ght:	6.8 lbs. (3.1 kgs.)			
7 Available on ELM618, ELM	l627 and ELM1254 only.						10	L Innut	lectrica	al Appl	Output	Jata	Outou	t Watte							
8 RT not available with SD. V	Vhen ordering RT, an ELA LF	Tneeds	Тур	e	Ī	/olts	A	mpac	Wa	tts	Volts	1½ hrs	2 hrs	3 hrs	4 hrs	ELM	554,EL	M1254&EL1272			
to be ordered.	harantians		FIA	-		120		167	5.	2	6	10	12.5	0	2	De	pth:	5.82"(148)			
10 Damplocation listed from	i 10°C to 40°C (50° to 104°F)except	LLN	1010	, 	277		072	5.	6	0	10	13.5	9	,	Hei	ght:	7.01"(178)			
ELM618N, ELM627N and I	ELM1254N listed from 15°C	to 32°C	ELN	1627	,	120		.10	5.	6	6	27	20	13.5	10	Wei	ght:	13.01bs.(5.9 kgs.)			
(60° to 90°F).	10. 15. 11.25.4					120		250	7.	4											
with any other option).	I∧ ELM 1254 only (nota	vallable	ELN	165 4		277		108	7.	4	6	54	40.5	27	20	Æ	T.				
			FLA	1125	.4	120		250	11.	.0	12	54	40.5	27	20	ŧ	\$19}-				
For additional lamp heads, re	mote fixtures, options and	d acces-	LLN		-	277		108	11.	.1	12	7	-U.J	27	20		K.				
sories, see pages 449-451. For application guidelines at pages 455 and 458.	nd fixture performance d	ata, see	ELN	M127	2	120 277		250 108	11. 11.	.0 .1	12	72	54	36	27		ELM6	554, ELM1254 and ELM1272			
					_	ſ			ww	w.lith	onia.co	m,kevwo	ord: ELN	Λ							

	light q	uick	° XD	
	Express de	livery pro	oducts.	
	See page11 for deta	ils about Light	Quick XD.	
	Description			
	ELM618			
	ELM627			
	ELM1254			
				_
EL	LM6-12 Quick-Mount	[®] Installation:		
1)) Feed leads thro make connection	ough mount ons to AC po	ing plate and ower supply.	I
2)) Align mounting cure with screw	g plate on J /s.	-box and se-	
3)) Snap housing o	onto mounti	ing plate.	
rawing onfigur oted.	is are for dimensional detail ration. Dimensions are show	only and may not wn in inches (mi l	represent actual m l limeters) unless o	echanica otherwise
LM618		ELM627		
Width:	: 12.79"(324)	Width:	12.79"(324)	
Depth: leight:	: 4.73"(120) : 7.01"(178)	Depth: Height:	4.73"(120) 7.01"(178)	

PSG9

ELM618 and ELM627

Weight: 8.0 lbs. (3.6 kgs.)

LITHONIA EMERGENCY



Recessed Emergency Lighting Units



Recessed Gimbal Emergency Lighting Unit

E	LRG	



Dimensions are shown in inches (millimeters) unless otherwise noted.



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting

Features

Matte white, baked enamel finish. All-metal housing and gimbal assembly.

High-output, 8W halogen lamp. Lamp adjusts in two planes to 26°.

Ordering Information

ELRG 6V, self-contained recessed gimbal

www.lithonia.com, keywords: ELR and ELRG

Low-profile pilot light and test switch.

Approved for use in air-handling plenums.

Maintenance-free lead-calcium battery. Mounts in 6" diameter opening.

Listings

UL Listed. NOM Certified units available (consult factory).

Example: ELRG

El	Electrical Application Data													
		AC Input												
Туре	Volts	Watts												
FLDC	120	.052	5.8											
ELKG	277	.023	5.9											

LITHONIA EMERGENCY

440

PSG9

Contemporary Square Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting. Available flushed, semi-recessed or recessed.

Features

Maintenance-free lead-calcium (standard) or nickel-cadmium (optional) battery.

Push-to-test switch and "ready" light behind lens.

Ordering Information

batteries

Ammeter¹

Voltmeter¹

NOM Certified

Ν

AM

٧M

cs

LEX

2L

NOM

Options

3-foot cordset (120V only)



10W or two 8W (with 2L option) halogen lamp

Listings

UL Listed. NOM Certified (see Options).

provides high lumen output.



Example: ELSQ N LEX

NOTES:

Choice of VM or AM. Not available with both.

2 2L option is UL Listed for a two-hour run time. Not available with nickelcadmium option

For additional lamp heads, remote fixtures, options and accessories, see pages 450-451.

				Electrical Application Data										
Accessories		(0	order separately)		put Wat	Watts								
RECESSING KITS	Fixt	ture	Compatibility	Туре	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs			
	ELS	Q	ELA SQR 6V	FLSO	120	.167	20	6	10		_			
	ELS	QM	ELA SQR 12V	LLJQ	277	.072	20							
ELA SRK Semi-	recessed l			FLSOM	120	.167	20	6	20	16	10			
ELA FRK Fully-	recessed			LESQM	277	.072	20	-						

Dimensions are shown in inches (millimeters) unless otherwise noted	ł.

Length: 10-5/16(262) Width: 10-5/16(262) Depth: 3-7/16(87) 5 lbs. (2.3 kgs.) ELSQ Weight[.] 7 lbs. (3.2 kgs.) ELSQM



FLCC

Contemporary Cylinder Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for 12 watts upon loss of AC power. Designed for environments requiring decorative emergency lighting fixtures.

Features

Black 16-gauge steel backplate and housing.

Ordering Information

ELCC 120/277

ELCC T 120/277

Contemporary white cylinder shroud with UVstabilized high-temperature plastic optical lens.

Single lamp head cylinder emergency light

Twin lamp head cylinder emergency light

Sturdy, adjustable cast-aluminum swivel.

One 8W halogen wedge-base lamp (single) or two 6W halogen wedge-base lamps (twin).

Wall or ceiling mount.

Dual-voltage input (120V/277V).

Sealed, maintenance-free lead-calcium battery provides 12W rated capacity.

Listings

UL Listed.

Example: ELCC T 120/277

Electrical Application Data													
			Output	Output Watts									
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs								
	120	.052	5.8	6	12								
	277	.023	5.9	0									

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in inches (millimeters) unless otherwise noted.





www.lithonia.com, keywords: ELSQ and ELCC

🖊 LITHONIA LIGHTING

441

LITHONIA EMERGENCY

Industrial Emergency Lighting Units

Indura®



Housing (blank) Navy ba

> White W

ELAINDPM 3

Forspacing an

NOTES

2

4 IND12100

5

Ordering Information

Family 6 volts IND618 18W IND654 54W IND6100 100W 12 volts IND1236 36W IND1254 54W IND12100 100W IND12150 150W IND12300 300W IND12450 450W 24 volts IND24100 100W IND24450 450W

Dimensions are shown in inches (millimeters) unless otherwise noted.



Small Housing (18W-100W) _ 12 . (305) 8.68 - (220) (228) 12.5 (317)



🖊 LITHONIA LIGHTING

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique, innovative design for a variety of light and heavy industrial applications and heavy commercial environments. Superior-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.

Features

Rugged blue and gray (standard colors) .140" thick, injection-molded thermoplastic.

Vertical orientation is designed especially for pole or column mounting. Also suitable for wall and I-beam mounting. Ceiling and pendant mounting, with accessory equipment, available on selected models.

Easy-mount installation with one galvanized, 12gauge steel mounting bracket shipped standard. Conduit entry points are located on top and both sides of the unit. Maintenance is made easy by tool-less re-lamp, single tool entry, hinging front cover, printed circuit board mounting shelf and battery belt.

Sealed maintenance-free, lead-calcium battery with wattage capacities from 18 to 450W for 90 minutes of emergency operation. Available in 6, 12 and 24V.

Dual-voltage input (120/277V). U.S. Patent No. D419,097, 6,135,624 and 6,193,395.

Listings

UL Listed. Damp location listing. Cold weather (ULT) listing. Meets UL 924, NFPA 101, NEC and OSHA illumination standards. NOM Certified units available (consult factory).

Example: IND1254 H1212 SEL

Housing co	lor		Vo	ltage⁵				La	mp	type			Option packages			
) Navy back	k, gray fror	nt	(blank)	120/277	-		6 vol	ts	_	12 vo	olts (cont'd)	(blank)	Damp location 10°C to 40°C (50° F to			
/ White					-	PA	R36 con	nposite		PAR36	sealed-beam		103°F); except IND6100 and IND24450,			
NOTES:						(blank)	9W/6	V krypton		H3512S	35W/12V		listed 15°C to 32°C (60°F to 90°F).			
Mustordera	remote trans	mitter (E	LA RTT). One	e per job req	uired.	H1206	12W/	6V haloger	n		halogen	XTRA	Extra package features remote test,			
2 Only availab	le on IND618,	IND123	6 and IND 12	100.	-	H2006	20W/	6V haloger	1	H5012S	50W/12V		time delay and damp location 10° C to			
B ELA IND PM a	accessory can	not be us	sed with the	IND 12100	PREM _	DA	12 vo	lts				SEL	Select package features self-diagnos-			
orIND12100	ULI. VEM and IND 1	100101		raarhausia	acizo	(hlank)	0W/1	<u>nposite</u> 2V. kruntor		PAR3	6 composite		tics, time delay, audible failure indica-			
Special volta	ades/freque	z iou u Li ncies ava	ilahle:con	ult factory	ysize.	H1212 12W/12V krypton				(blank)	18W/24V		tion and damp location 10°C to 40°C			
or spacing and	performanc	e quide l	ines, please	e see page	459.	H2012	20W/	12V haloge	-n	()	incand.		(50° F to 104°F).			
	Electrical Application D						2011/			H2024	20W/24V	PREM	Premium package features high tem- perature ni-cad battery (IND618 and			
	Δ	L C Innut		Outnut	II Dala	Outnut	Watts			DADOC	halogen		IND1236 only) or high ambient lead			
Туре	Volts	Amps	s Watts Volts 1-1/2hr. 2hr. 3hrs. 4hrs.						PAK36	sealed-beam		calcium battery (IND12100 only), self				
71			Watts Volts I-1/2nr. 2nr. 3nrs. 4nrs. N5024S 50W/24V							50W/24V incand		diagnostics, time delay, audible failure				
	120	.163	19.6	6	18	13.5	9	6			incuria.		Indication and damp location. UL Listed for Ω° C to 55°C (32°E to 131°E) ^{2,4}			
IND618	277	.069	19.11	6	18	13.5	9	6				ULT	Ultimate package features heater,			
	120	.172	20.64	6	54	40	27	20					thermostat and battery blanket with			
IND034	277	.075	20.78	6	54	40	27	20					a high temperature ni-cad battery (IND618 and IND1236 only) or a high-			
	120	.171	20.5	6	100	75	50	37					ambient lead-calcium battery			
INDOIDO	277	.064	17.7	6	100	75	50	37					(IND12100 only), self diagnostics, time			
1001026	120	.174	20.9	12	36	27	18	13					delay, audible failure indication and damp location III Listed for -40°C to			
IND1250	277	.078	21.61	12	36	27	18	13					55°C (-40°F to 131°F). ^{2,4}			
IND1254	120	.174	20.88	12	54	40	27	20								
1101254	277	.078	21.6	12	54	40	27	20			Accorcorios		(Order constately)			
IND12100	120	.174	20.88	12	100	75	50	37				Pomoto	(Order separatery)			
111012100	277	.074	20.49	12	100	75	50	37			ELA WG2M	Small wi	requard (18W-100W)			
IND12150	120	.359	43.08	12	150	112	75	56			ELA BS	Banding	strap			
	277	.168	46.54	12	150	112	75	56			ELA IND R3	Pre-pack	to install third head			
10012200	120	.290	34.8	12	300	225	150	112			ELA IND PM	Pendant	mount kit ³			
11012300	277	.130	36.1	12	300	225	150	112			ELA IND CM1	Ceiling m	nount kit for IND618			
IND12452	120	.33	39.96	12	450	337	225	168			ELA IND CM2	Ceiling m	10UNT KIT TOP IND354/1236/1254			
IND12450	277	.15	43.77	12	450	337	225	168			ELA IND CM3	Remote	head bracket for surface mount i-boxes			
111024466	120	.33	39.6	24	100	75	50	37			ELA WGLG	Large wi	reguard (150-450W)			
IND24100	277	.15	41.55	24	100	75	50	37				-	-			
111004450	120	.773	92.76	24	450	337	225	168								
IND24450	277	.327	90.58	24	450	337	225	168								

www.lithonia.com, keyword: IND

NEMA 4X Industrial Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique design for heavy and demanding industrial applications such as manufacturing plants, refineries, chemical plants, wastewater treatment facilities, food processing facilities, breweries, loading docks and other applications subject to hosedown or industrial conditions. Superior-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.

Features

Rugged, heavy-duty polycarbonate housing is sealed, gasketed and corrosion resistant.

Vertical orientation - designed especially for pole or column mounting. Also suitable for wall and I-beam mounting.

Electrical Application Data

Primary Circuit

19.56

19.11

20.64

20.78

20.52

20.22

18.24

17.73

20.88

21.61

20.88

20.55

20.88

20.55

39.6

41.55

Output

6

6

6

6

6

6

12

12

12

12

12

12

12

12

24

24

18

18

54

54

100

100

36

36

54

54

100

100

125

125

100

100

Output Watts

13.5 9

13.5

40 27

40 27 20

75 50 37.5

75 50 37.5

27 18

27

40 27 20

40 27 20

75 50 37.5

75 50 37.5

93 62 46

93 62 46

75 50 37

75

9

18 13

50 37

13

AC Input

.093

.41

.171

.073

.144

.062

.174

.078

.174

.078

.160

.072

.160

.072

.33

.15

Volts

120

277

120

277

120

277

120

277

120

277

120

277

120

277

120

277

Ordering Information

Ш I

Туре

INDX618

INDX654

INDX6100

INDX1236

INDX1254

INDX12100¹

INDX12125

INDX24100

Easy-mount installation with one epoxy-coated galvanized, 12-gauge steel mounting bracket shipped standard. Conduit entry points are located on top and both sides of the unit. Maintenance is made easy by tool-less re-lamp, single tool entry, hinging front cover, printed circuit board mounting shelf and battery belt.

Sealed maintenance-free, lead-calcium battery with wattage capacities from 18 to 125W for 90 minutes of emergency operation. Available in 6, 12 and 24V.

Dual-voltage input (120/277V). U.S. Patent No. D419,097, 6,135,624 and 6,193,395.

Listings

UL Listed. Cold weather (ULT) listing. Meets UL 924, NFPA 101, NEC and OSHA illumination standards. NOM Certified units available (consult factory). NEMA 4; 4X Rated. IP66 and NSF listed.

INDX



Example: INDX12100 H1212 ULT

Mounting

16

(406)

Mounting Bracket

1 (25)

8.32 (211)

7-1/4 (184)

0.40 (10)

Family	Housing color	Lamp typ	e (2 heads)	Option packages
6 volts INDX618 18W INDX654 54W	(blank) Gray W White	<u>6 volts</u> <u>PAR36 composite</u> (blank) 9W/6V krypton	<u>12 volts (cont'd)</u> PAR36 sealed-beam H3512S 35W/12V halogen	(blank) UL Listed to 4X standards. XTRA Extra package features remote test and time delay. UL Listed for 10°C to 40°C (50°F to 104°F). ²
INDX6100 100W		H1206 12W/6V halogen H2006 20W/6V halogen	H5012S 50W/12V halogen 24 volts	SEL Select package features self diagnostics, time delay and audible failure indicator. UL Listed for 10°C to 40°C (50°F to 104°F).
INDX1236 36W INDX1254 54W INDX12100 100W ¹ INDX12125 125W		12 volts PAR36 composite (blank) 9W/12V krypton H1212 12W/12V halogen	PAR36 composite (blank) 18W/24V incand. H2024 20W/24V halogen PAR36 sealed-beam	PREM Premium package features high temperature nickel-cadmium battery (INDX618 or INDX1236 only) or high ambient lead-calcium battery (INDX12100 only), self-diagnostics, time delay and audible failure indication. UL Listed for 10°C to 55°C (32°F to 131°F). ³
24 volts INDX24100 100W		H2012 20W/12V halogen	N5024S 50W/24V incand.	ULI Ultimate package features heater, thermostat and battery blanket with a high temperature nickel-cadmium battery (INDX618 or INDX1236 only) or high ambi- ent lead-calcium battery (INDX12100 only), self-diagnostics, time delay and audible failure indication. UL Listed for -40°C to 55°C (-40°F to 131°F). ³

Dimensions are shown in inches (millimeters) unless otherwise noted. Accessories (Order separately) ELA RTT Remote test trasmitter² (for use with XTRA package, remote Amps Watts Volts 1-1/2hr. 2hr. 3hrs. 4hrs. testing option. ELA BS Banding strap 6 ELA INDX CM2 Ceiling mount kit for INDX654/ 1236/1254 6 ELA WG4/8 Wireguard 20

NOTES:

INDX12100 available with either the PREM or ULT package only. 1 Must order a remote transmitter (ELA RTT). One per job required. 2

Only available on INDX618, INDX1236 or INDX12100. 3

For spacing and performance guide lines, please see page 459.



🖊 LITHONIA LIGHTING

11-1/2

(292)

LITHONIA EMERGENCY

443

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Power Sentry® General Spacing Guidelines

					2X2	2										2)	(4				Turret	
	2G	T8	25	P8	2	AV	2PI	M3N	2P	°M0	2G1	83	2SF	P8 3	2AV	33	2PM	3N3 3	2PN	03 3	indus	strials
	2 U.	316	2 U	316	2 (F40	2 U	316	2	U31	3	2	3	32		2	32		32		AF	2 96
	11	FC	1	FC	1F	C	1F	C	16	C	1FC		1F	C	1	FC	1FC		1FC		1	FC
Туре	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min
											Corric	lor										
PS300QD	18	14	20	14	14	12	17	14	17	13	20	16	24	16	18	14	21	16	21	16		
PSQ500QD	32	18	31	18	24	17	27	18	27	16	32	22	35	22	28	20	32	22	32	19		
PS600QD	39	21	40	20	29	21	35	20	28	17	40	25	43	24	34	25	40	25	40	20		
PS1400QD	58	29	54	30	53	29	48	29	42	21	47	31	57	25	59	32	53	31	43 ¹	25		
										0	pen O	ffice										
PS300QD	16	13	16	13	14	12	14	12	14	12	16	13	16	14	13	11	17	14	18	14		
PS500QD	26	17	27	17	24	16	24	17	23	17	26	17	29	17	21	15	27	18	29	17		
PS600QD	32	19	33	18	29	18	29	16	28	19	32	18	35	19	26	17	34	20	35	18		
PS1400QD	26 ¹	25	47	24	47	26	38	22	26 ¹	22	47	24	47	24	47	25	45	27	331	22		
											Indust	rial										
PS1400QD																					25	23

NOTES:

1 Limited spacing due to 40:1 max to min ratio requirement by NFPA 101.

All spacings are intended to be guidelines. Results will vary if application deviates from dimensions or assumptions stated below.

Meets Life Safety Code[®] standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes a 1.0 FC minimum requirement. Assumes 3 T8 lamps in each fixture, 6' wide path of egress, and a 9' ceiling height (exception: 18' ceiling on industrials).

Assumptions to arrive at these spacings: Open office dimensions/reflectances: 100'Lx80'W xm9'Hwith 80/50/20reflectances. Corridor dimensions/reflectances: 100'L x8'W x9'H with 80/50/20 reflectances. Industrial dimensions/reflectances: 200'L x200W x18H with 10/10/10 reflectances.

LITHONIA EMERGENCY

EMERGENCY LIGHTING UNITS

LITHONIA EMERGENCY 455

General Spacing Guidelines for Sealed-Beam and Composite Lamps

						Fixture Spacing														
						7.5' 12' mounting mounting height height							14' 16' mounting mounting height height			18' mounting height		20' mounting height		5' nting ght
Catalog						Beam	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1FC	1 FC	1FC	1 FC	1 FC	1FC
Number	Volts	Watts	Туре	Lumens	Lamp #	НхV	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
							Sealed L	Beam La	mps											
N0806S N1206S	6 6	8 12	Incandescent Incandescent	54 177	7613-1 4042	30 x 20 45 x 20	20 20	_	22	_	20		18		17	_	15	_		_
N1806S	6	18	Incandescent	184	4014	50 x 25	25	—	23	—	23	_	22	—	20	_	20	_	18	_
N25065 N1212S N1812S	6 12 12	25 12 18	Incandescent Incandescent Incandescent	395 177 184	4510 4044-1 4414	80 x 20 50 x 25 50 x 25	25 25 25	_	38 20 23		38 19 23	_	36 19 22	_	34 16 20	_	32 15 20	_	27 18	_
N2512S	12	25	Incandescent	238	4446	80 x 30	32	—	20	—	19	—	18	—	16	—	15	—	—	—
N3512S	12	35	Incandescent	350	4411-1	Trapezoid	—		46	—	46	—	46	—	46	16	44	17	38	20
N5012S	12	50	Incandescent	200	50PAR36NSP	Spot	—	—	32	—	32	—	32	—	32	—	32	16	32	17
N5024S	24	50	Incandescent	420	4504	11 x 5	_	_	65		60	_	60	_	55	_	55		55	_
H0606S	6	6	Halogen	110	H7556	30 x 20	—	_	28	—	26	—	26	15	24	16	22	16	20	15
H0806S	6	8	Halogen	150	H7551	30 x 20	25	—	16	—	16	—	15	—	-	—	—	—	—	—
H1206S	6	12	Halogen	263	H7553	30 x 20	28	—	28	—	26	—	26	15	24	16	22	16	20	15
H2006S	6	20	Halogen	400	H7554	30 x 20	—	—	46	—	46	—	46	—	46	—	42	—	40	16
H0812S	12	8	Halogen	150	H7555	30 x 20	25	—	16	—	16	—	15	—	-	—	—	—	—	—
H1212S	12	12	Halogen	263	H7557	30 x 20	37	—	28	—	27	—	26	16	24	16	23	16	20	16
H3512S	12	37.5	Halogen	706	H7600	9 x 4.5	—	_	75	—	70	—	70	—	70	—	70	—	70	_
H5012S	12	50	Halogen	940	H7604	7 x 5	_	_	80	_	80	_	80	_	80	_	80	_	80	_

Assumptions: Meets Life Safety Code® standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 maximum/ minimum ratio. Assumes 6' wide path of egress in 15' wide aisle of 200X200', open warehouse with reflectances of 10/10/10. For Indura® spacing guidelines, see page 456.

					Fixture Spacing				
					7.5'	10'	16'		
Catalog					mounting	mounting	mounting		
Number	Volts	Watts	Туре	Lumens	height	height	height		
			<i>Quantum</i> ®	Composite La	imps				
CDS N0606	6	6	Incandescent	68	CF				
CDS N0806	6	8	Incandescent	100	11'				
CDS N0906	6	9	Incandescent	150	20'				
CDS N0912	12	9	Incandescent	138	17'				
CDS N1212	12	12	Incandescent	151	18'				
CDS H0606	6	6	Halogen	113	15'				
CDS H0806	6	8	Halogen	163	19'				
CDS H0812	12	8	Halogen	163	15'				
CDS H1212	12	12	Halogen	276	25'				
			MR24 Co	omposite Lamp	DS				
MR24 K0606	6	6	Krypton	90	25	-	-		
MR24 K0906	6	9	Krypton	180	25	31	27		
MR24 K0912	12	9	Krypton	190	25	33	29		
MR24 H1206	6	12	Halogen	238	-	29	22		
MR24 H1212	12	12	Halogen	276	-	31	39		
MR24 H2006	6	20	Halogen	418	-	35	52		
MR24 H2012	12	20	Halogen	317	-	43	38		

NOTE: All spacings are intended as guidelines. Results will vary if application deviates from dimension or assumptions state below.

 $Assumptions: Meets Life Safety Code^{\circledast} standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 maximum/minimum ratio. Assumes open space with no obstructions, 9' ceiling height, 3' wide path of egress, and reflectances of 80/50/20.$

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General Spacing Guidelines for Indura® and Indura® 4X Lamps

	Fixture Spacing ¹																
						12	2'	1	4′	1	6′	1	8′	20)′	2	4′
						mour	nting	mou	nting	mou	nting	mou	nting	mour	nting	mou	nting
						heig	ght	hei	ght	hei	ght	hei	ight	hei	ght	hei	ght
Catalog						1 F	С	1 F	С	1 F	С	1 F	С	1 F	С	1 F	C
Number	Volts	Watts	Туре	Lumens	Beam	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
						Indur	a® Com	posite Lam	ps								
K0906	6	9	Kryp.	180	Medium	26	-	26	-	23	-	20	-	20	-	10	-
K0912	12	9	Kryp.	190	Medium	24	-	24	-	22	-	22	-	22	-	20	-
N1824	24	18	Inc.	289	Flood	36	-	36	-	34	-	34	15	32	15	28	15
					Spot	32	-	32	-	32	-	30	-	30	-	28	-
H1206	6	12	Hal.	238	Medium	28	16	28	16	26	16	24	18	22	18	20	15
					Flood	17	-	16	-	15	-	-	-	-	-	-	_
					Spot	46	16	46	16	45	16	43	16	41	16	39	16
H2006	6	20	Hal.	402	Medium	35	22	34	24	33	24	31	23	29	22	24	18
					Flood	22	15	21	15	20	15	18	15	17	_	_	_
					Spot	38	_	38	-	38	_	38	_	37	_	33	15
H1212	12	12	Hal.	276	Medium	35	16	35	17	33	19	31	20	30	21	26	21
					Flood	22	_	21	_	21	_	20	15	18	_	_	_
					Spot	38	_	38	_	36	_	36	_	34	_	30	15
H2012	12	20	Hal.	314	Medium	26	19	26	19	23	19	23	18	21	18	17	15
					Flood	15	_	15	_	_	_	_	_	_	_	_	_
					Spot	38	_	38	_	37	_	35	_	33	_	30	_
H2024	24	20	Hal.	300	Medium	38	_	38	_	37	15	35	16	33	17	29	19
					Flood	23	_	23	_	22	_	20	_	18	_	15	_
						Indura	® 4X Cor	nposite La	mps			20					
K0906	6	9	Krvp.	180	Medium	22	_	21	_	21	_	20	_	18	_	16	_
K0912	12	9	Krvp.	190	Medium	20	_	20	_	19	_	19	_	18	_	16	_
N1824	24	18	Inc.	289	Flood	34	_	34	_	33	_	32	15	32	15	27	15
					Spot	25	_	25	_	25	_	25	_	25	_	25	_
H1206	6	12	Hal	238	Medium	25	16	23	16	22	16	20	18	19	18	15	15
111200	Ū	12	Tui.	250	Flood	17	-	16	_	14	-	13	_	12	-	10	_
					Snot	38	16	38	16	38	16	38	16	38	16	38	16
H2006	6	20	Hal	402	Medium	35	22	33	74	33	74	32	23	31	22	78	18
112000	Ū	20	nui.	102	Flood	26	15	24	15	22	15	20	15	18	_	16	_
					Snot	30		30		30		30		30		26	15
H1212	12	12	Hal	276	Medium	28	16	30 27	17	25	19	24	20	20	21	20	21
111212	12	12	nui.	270	Flood	18	-	16	_	15	_	14	15	12	_	10	-
					Snot	22		22		22		22	IJ	32		70	15
LI2012	12	20	ЦаI	21/	Modium	26	10	76	10	22	10	22	10	21	10	17	15
12012	12	20	ndi.	514	Flood	15	19	20	19	25	19	25	10	21	10	17	U
					Fillou	24		24	-	- 24		-	-	-		- 20	-
H2024	74	20	ЦаІ	300	Spot	54 25	_	54 21	_	54 24	-	55 24	-	5Z	- 17	5U 21	- 10
nzuz4	24	20	⊓di.	200	Medium	22	-	54	_	54	CI	54	10	22	17	21	19
					Flood	29	-	26	-	25	-	22	-	21	-	18	-
					Ind	ura®/Indu	ıra® 4X	Sealed-Bea	m Lamps ²								
N5024S	24	50	Inc.	420	11 X 17	65	-	60	-	60	-	55	-	55	-	55	-
H3512S	12	35	Hal.	706	9 X 4.5	75	-	70	-	70	-	70	-	70	-	70	-
H5012S	12	50	Inc.	940	7 X 5	80	-	80	-	80	-	80	-	80	-	80	-

NOTES:

1 All spacings are intended to be guidelines, and meet Life Safety Code® standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 max/min ratio. The 1FC minimum fixture spacing meets a 0.1FC minimum illuminance, 1.0 FC average illuminance, and a 40:1 max/min ratio. Results will vary if application deviates from dimensions or assumptions stated. Spacing guidelines assume: 6' wide path of egress in 15' wide aisle of 200'x200'x30' open warehouse with reflectances of 10/10/10.

2 Sealed-beam lamp spacings were generated using the Indura® fixture.

As Lithonia Lighting continues to improve the performance of its emergency lighting products, we also continue to improve the manner in which we communicate our products' performance. Instead of relying on lamp iso-footcandle diagrams to compare one source to the next, we now perform point-by-point illuminance calculations to more accurately depict how our products will perform in real commercial or industrial applications.

ELM2 MR24 Lamp Head

Point-by-point calculations depict illuminance coverage of an individual unit and/or multiple units in a space. Graphical representation of point-by-point for both a 3' and 6' path of egress are highlighted throughout the next few pages.

In the graphical representation, the rectangle depicts the area where an average of one foot-candle (FC) is maintained. The surrounding curve represents the minimum 0.1 FC isocontour along

the floor. The coverage of an individual unit, as well as the maximum spacing that can be achieved with multiple units is depicted in feet. The footnotes detail all the relevant information necessary to replicate each layout using your own lighting analysis software and IESNA format photometrics.



457

PERFORMANCE DATA

NOTES:

1 Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 7.5', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.

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MR24 Lamp Head Performance



MR24 Lamp Head Recommended Center-to-Center Spacing Chart

Lamp	Lamp	Quantum®	7.5'	10'	12'	16'	20'
type	voltage/	unit lamp	mounting	mounting	mounting	mounting	mounting
	wattage is used on		height	height	height	height	height
K0606	6V/5.4W	ELM2 ²	25'	N/A	N/A	N/A	N/A
K0906	6V/9W	ELM618 ² , ELM27 ² , ELM654 ²	25'	31'	29'	27'	23'
K0912	12V/9W	ELM1254 ² , ELM1272 ²	25'	33'	30'	29'	28'
H1206	6V/12W	ELM627, ELM654	N/A	29'	N/A	22'	N/A
H1212	12V/12W	ELM1254, ELM1272	N/A	31'	33'	39'	41'
H2006	6V/20W	ELM654	N/A	35'	37'	52'	49'
H2012	12V/20W	ELM1254, ELM1272	N/A	43'	41'	38'	32'

NOTES:

1 Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, 3-foot-wide path of egress, and reflectances of 80/50/20.

2 Standard lamp for this unit.



Affinity® Recommended Center-to-Center Spacing Chart

Xenon	Path of egress	Path of egress		
Iamp	3'-wide	6'-wide		
Center-to-center spacing	26'	21'		



Indura® and Indura® 4X Performance²

NOTES:

- 1 Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height 8.5', ceiling height 9', and reflectances: 80/50/20.
- 2 Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes space of 200'L X 200'W X 30'H, mounting height: 12', ceiling height 30', and reflectances 10/10/10. Analysis based on independently tested photometrics.

Please refer to page 456 for recommended spacing chart.

PSG9

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Power Sentry Performance



Power Sentry[®] Recommended Center-to-Center Spacing Chart

One Fo	One Footcandle Average Spacing Guidelines – Corridor									
	T8 lensed troffer	T8 direct/indirect	T8 parabolic							
PS300QD	24'	18'	21'							
PSQ500QD	35'	28'	32'							
PS600QD	43'	34'	40'							
PS1400QD	57'	59'	53'							

NOTE:

Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes(3) T8 lamps in each fixture, 8'W X 100' L corridor, ceiling height of 9' and reflectances of 80/50/20.



Power Sentry® Recommended Center-to-Center Spacing Chart

One Footcandle Average Spacing Guidelines – Open Office								
	T8 parabolic							
PS300QD	16'	13'	17'					
PSQ500QD	29'	21'	27'					
PS600QD	35'	26'	34'					
PS1400QD	47'	47'	45'					

NOTE:

 $Meets Life Safety Code^{\varpi} standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes (3) T8 lamps in each fixture, 100'W X 100'L open office, ceiling height of 9' and reflectances: 80/50/20.$

SECTION 1006

MEANS OF EGRESS ILLUMINATION

1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.

Exceptions:

(1) Occupancies in Group U.

(2) Aisle accessways in Group A.

(3) Dwelling units and sleeping units in Groups R-1, R-2 and R-3.

(4) Sleeping units of Group I occupancies.

1006.2 Illumination level. The means of egress illumination level shall not be less than 1 foot-candle (11 lux) at the floor level.

Exception: For auditoriums, theaters, concert or opera halls and similar assembly occupancies, the illumination at the floor level is permitted to be reduced during performances to not less than 0.2 foot-candle (2.15 lux) provided that the required illumination is automatically restored upon activation of a premise's fire alarm system where such system is provided.

1006.3 Illumination emergency power. The power supply for means of egress illumination shall normally be provided by the premise's electrical supply.

In the event of power supply failure, an emergency electrical system shall automatically illuminate the following areas:

(1) Exit access corridors, passageways and aisles in rooms and spaces which require two or more means of egress.

(2) Exit access corridors and exit stairways located in buildings required to have two or more exits.

(3) Exterior egress components at other than the level of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.

(4) Interior exit discharge elements, as permitted in Section 1023.1, in buildings required to have two or more exits.

(5) The portion of the exterior exit discharge immediately adjacent to exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

1006.4 Performance of system. Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 1 foot-candle (11 lux) and a minimum at any point of 0.1 foot-candle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 foot-candle (6 lux) average and a minimum at any point of 0.06 foot-candle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

SECTION 1011 EXIT SIGNS

1011.1 Where required. Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. Access to exits shall be marked by readily visible exit signs in cases where the exit or the path of egress travel is not immediately visible to the occupants. Exit sign placement shall be such that no point in an exit access corridor is more than 100 feet (30480 mm) or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign.

Exceptions:

(1) Exit signs are not required in rooms or areas which require only one exit or exit access.

(2) Main exterior exit doors or gates which obviously and clearly are identifiable as exits need not have exit signs where approved by the building official.

(3) Exit signs are not required in occupancies in Group U and individual sleeping units or dwelling units in Group R-1, R-2 or R-3.

(4) Exit signs are not required in sleeping areas in occupancies in Group I-3.

(5) In occupancies in Groups A-4 and A-5, exit signs are not required on the seating side of vomitories or openings into seating areas where exit signs are provided in the concourse that are readily apparent from the vomitories. Egress lighting is provided to identify each vomitory or opening within the seating area in an emergency.

1011.2 Illumination. Exit signs shall be internally or externally illuminated.

Exception: Tactile signs required by Section 1011.3 need not be provided with illumination.

1011.3 Tactile exit signs. A tactile sign stating EXIT and complying with ICC A117.1 shall be provided adjacent to each door to an egress stairway, an exit passageway and the exit discharge.

1011.4 Internally illuminated exit signs. Internally illuminated exit signs shall be listed and labeled and shall be installed in accordance with the manufacturer's instructions and Section 2702. Exit signs shall be illuminated at all times.

1011.5 Externally illuminated exit signs. Externally illuminated exit signs shall comply with Sections 1011.5.1 through 1011.5.3.

1011.5.1 Graphics. Every exit sign and directional exit sign shall have plainly legible letters not less than 6 inches (152 mm) high with the principal strokes of the letters not less than 0.75 inch (19.1 mm) wide. The word "EXIT" shall have letters having a width not less than 2 inches (51 mm) wide except the letter "I," and the minimum spacing between letters shall not be less than 0.375 inch (9.5 mm). Signs larger than the minimum established in this section shall have letter widths, strokes and spacing in proportion to their height.

The word "EXIT" shall be in high contrast with the background and shall be clearly discernible when the exit sign illumination means is or is not energized. If an arrow is provided as part of the exit sign, the construction shall be such that the arrow direction cannot be readily changed.

1011.5.2 Exit sign illumination. The face of an exit sign illuminated from an external source shall have an intensity of not less than 5 foot-candles (54 lux).

1011.5.3 Power source. Exit signs shall be illuminated at all times. To ensure continued illumination for a duration of not less than 90 minutes in case of primary power loss, the sign illumination means shall be connected to an emergency power system provided from storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

Exception: Approved exit sign illumination means that provide continuous illumination independent of external power sources for a duration of not less than 90 minutes, in case of primary power loss, are not required to be connected to an emergency electrical system.

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7.8 Illumination of Means of Egress. 7.8.1 General.

7.8.1.1* Illumination of means of egress shall be provided in accordance with Section 7.8 for every building and structure where required in Chapter 11 through Chapter 42. For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, walkways, and exit passageways leading to a public way.

7.8.1.2 Illumination of means of egress shall be continuous during the time that the conditions of occupancy require that the means of egress be available for use, unless otherwise provided in 7.8.1.2.2.

7.8.1.2.1 Artificial lighting shall be employed at such locations and for such periods of time as are necessary to maintain the illumination to the minimum criteria values herein specified.

7.8.1.2.2 Automatic, motion sensor—type lighting switches shall be permitted within the means of egress, provided that the switch controllers are equipped for fail-safe operation, the illumination timers are set for a minimum 15-minute duration, and the motion sensor is activated by any occupant movement in the area served by the lighting units.

7.8.1.3* The floors and other walking surfaces within an exit and within the portions of the exit access and exit discharge designated in 7.8.1.1 shall be illuminated as follows: (1) During conditions of stair use, the minimum illumination for new stairs shall be at least 10 ft-candle (108 lux), measured at the walking surfaces. (2) The minimum illumination for floors and walking surfaces, other than new stairs during conditions of stair use, shall be to values of at least 1 ft-candle (10.8 lux), measured at the floor. (3) In assembly occupancies, the illumination of the floors of exit access shall be taleast 0.2 ft-candle (2.2 lux) during periods of performances or projections involving directed light. (4)*The minimum illumination requirements shall not apply where operations or processes require low lighting levels.

7.8.1.4* Required illumination shall be arranged so that the failure of any single lighting unit does not result in an illumination level of less than 0.2 ft-candle (2.2 lux) in any designated area.

7.8.1.5 The equipment or units installed to meet the requirements of Section 7.10 also shall be permitted to serve the function of illumination of means of egress, provided that all requirements of Section 7.8 for such illumination are met.

7.8.2 Sources of Illumination.

LITHONIA EMERGENCY

462

7.8.2.1* Illumination of means of egress shall be from a source considered reliable by the authority having jurisdiction.

7.8.2.2 Battery-operated electric lights and other types of portable lamps or lanternsshall not be used for primary illumination of means of egress. Battery-operated electric lights shall be permitted to be used as an emergency source to the extent permitted under Section 7.9.

7.9 Emergency Lighting. 7.9.1 General.

7.9.1.1* Emergency lighting facilities for means of egress shall be provided in accordance with Section 7.9 for the following: (1) Buildings or structures where required in Chapter 11 through Chapter 42 (2) Underground and limited access structures as addressed in Section 11.7 (3) High-rise buildings as required by other sections of this *Code* (4) Doors equipped with delayed-egress locks (5) Stair shaft and vestibule of smokeproof enclosures, for which the following also apply: (a) The stair shaft and vestibule shall be permitted to include a standby generator that is installed for the smokeproof enclosure mechanical ventilation equipment. (b) The standby generator shall be permitted to be used for the stair shaft and vestibule emergency lighting power supply. (6) New access-controlled egress doors in accordance with 7.2.1.6.2.

7.9.1.2 For the purposes of 7.9.1.1, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of 7.9.1.1, exit dischargeshall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.

7.9.1.3 Where maintenance of illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

7.9.2 Performance of System.

7.9.2.1* Emergency illumination shall be provided for not less than 1-1/2 hours in the event of failure of normal lighting. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level. Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of the 1-1/2 hours. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

7.9.2.2 New emergency power systems for emergency lighting shall be at least Type 10, Class 1.5, Level 1, in accordance with NFPA110, *Standard for Emergency and Standby Power Systems*.

7.9.2.3* The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any interruption of normal lighting due to any of the following: (1) Failure of a public utility or other outside electrical power supply (2) Opening of a circuit breaker or fuse (3) Manual act(s), including accidental opening of a switch controlling normal lighting facilities.

7.9.2.4 Emergency generators providing power to emergency lighting systems shall be installed, tested, and maintained in accordance with NFPA 110, *Standard for Emergency and Standby Power Systems*. Stored electrical energy systems, where required in this *Code*, shall be installed and tested in accordance with NFPA 111, *Standard on Stored Electrical Energy Emergency and Standby Power Systems*.

7.9.2.5 Unit equipment and battery systems for emergency luminaires shall be listed to UL 924, *Standard for Emergency Lighting and Power Equipment*.

7.9.2.6* Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA70, *National Electrical Code*.

7.9.2.7 The emergency lighting system shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.

7.9.3 Periodic Testing of Emergency Lighting Equipment.

7.9.3.1 Required emergency lighting systems shall be tested in accordance with one of the three options offered by 7.9.3.1.1, 7.9.3.1.2, or 7.9.3.1.3.

7.9.3.1.1 Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Functional testing shall be conducted at 30-day intervals for not less than 30 seconds. (2) Functional testing shall be conducted annually for not less than 1-1/2 hours if the emergency lighting system is battery powered. (3) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1(1) and 7.9.3.1.1(2). (4) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.2 Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided. (2) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine. (3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator. (4) A visual inspection shall be performed at intervals not exceeding 30 days. (5) Functional testing shall be conducted annually for not less than 1-1/2 hours. (6) Self-testing/self-diagnostic battery-operated

emergency lighting equipment shall be fully operational for the duration of the 1-1/2 hourtest. (7) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.3 Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Computer-based, self-testing/self-diagnostic batteryoperated emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine. (3) The emergency lighting equipment shall automatically perform shall automatically perform not less than once every 30 days a test for not less than 1-1/2 hours. (4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and 7.9.3.1.3(3). (5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

7.10 Marking of Means of Egress. 7.10.1 General.

7.10.1.1 Where Required. Means of egress shall be marked in accordance with Section 7.10 where required in Chapter 11 through Chapter 42.

7.10.1.2* Exits. Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.

7.10.1.3 Exit Door Tactile Signage. Tactile signage shall be provided to meet the following criteria, unless otherwise provided in 7.10.1.4: (1) Tactile signage shall be located at each exit door requiring an exit sign. (2) Tactile signage shall read as follows: EXIT. (3) Tactile signage shall comply with ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities.*

7.10.1.4 Existing Exemption. The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.

7.10.1.5.1 Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

7.10.1.5.2* New sign placement shall be such that no point in an exit access corridor is in excess of the rated viewing distance or 100 ft (30 m), whichever is less, from the nearest sign.

7.10.1.6* Floor Proximity Exit Signs. Where floor proximity exit signs are required in Chapter 11 through Chapter 42, such signs shall be located near the floor level in addition to those signs required for doors or corridors. The signs shall be illuminated in accordance with 7.10.5. Externally illuminated signs shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.

7.10.1.7* Floor Proximity Egress Path Marking. Where floor proximity egress path marking is required in Chapter 11 through Chapter 42, a listed and approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm system is activated. The activation, duration, and continuity of operation of the system shall be in accordance with the product manufacturing listing.

7.10.1.8* Visibility. Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.

7.10.1.9 Mounting Location. The bottom of new egress markings shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) above the top edge of the egress opening intended for designation by that marking. Egress markings shall be located at a horizontal distance of not more than the required width of the egress opening, as measured from the edge of the egress opening intended for designation by that marking to the nearest edge of the marking.

7.10.2* Directional Signs. A sign complying with 7.10.3 with a directional indicator showing the direction of travel shall be placed in every location where the direction of travel to reach the nearest exit is not apparent.

7.10.3* Sign Legend.

7.10.3.1 Signs required by 7.10.1 and 7.10.2 shall read as follows in plainly legible letters, or other appropriate wording shall be used:

EXIT

7.10.3.2* Where approved by the authority having jurisdiction, pictograms shall be permitted.

7.10.4* Power Source. Where emergency lighting facilities are required by the applicable provisions of Chapter 11 through Chapter 42 for individual occupancies, the signs, other than approved self-luminous signs and listed photoluminescent signs in accordance with

7.10.7.2, shall be illuminated by the emergency lighting facilities. The level of illumination of the signs shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

7.10.5 Illumination of Signs.

7.10.5.1* General. Every sign required by 7.10.1.2, 7.10.1.5, or 7.10.8.1, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

7.10.5.2* Continuous Illumination.

7.10.5.2.1 Every sign required to be illuminated by 7.10.6.3, 7.10.7, and 7.10.8.1 shall be continuously illuminated as required under the provisions of Section 7.8, unless otherwise provided in 7.10.5.2.2.

7.10.5.2.2* Illumination for signs shall be permitted to flash on and off upon activation of the fire alarm system.

7.10.6 Externally Illuminated Signs.

7.10.6.1* Size of Signs.

7.10.6.1.1 Externally illuminated signs required by 7.10.1 and 7.10.2, other than approved existing signs, unless otherwise provided in 7.10.6.1.2, shall read EXIT or shall use other appropriate wording in plainly legible letters sized as follows: (1) Fornew signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19 mm) wide. (2) For existing signs, the required wording shall be permitted to be in plainly legible letters not less than 4 in. (100 mm) high. (3) The word EXIT shall be in letters of a width not less than 2 in. (51 mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm). (4) Sign legend elements larger than the minimum established in 7.10.6.1.1(1) through 7.10.6.1.1(3) shall use letter widths, strokes, and spacing in proportion to their height.

7.10.6.1.2 The requirements of 7.10.6.1.1 shall not apply to marking required by 7.10.1.3 and 7.10.1.6.

7.10.6.2* Size and Location of Directional Indicator.

7.10.6.2.1 Directional indicators, unless otherwise provided in 7.10.6.2.2, shall comply with the following:

(1) The directional indicator shall be located outside of the EXIT legend, not less than 3/8 in. (9.5 mm) from any letter.

(2) The directional indicator shall be of a chevron type, as shown in Figure 7.10.6.2.1.

(3) The directional indicator shall be identifiable as a directional indicator at a distance of 40 ft (12 m).

(4) A directional indicator larger than the minimum established for compliance with 7.10.6.2.1(3) shall be proportionately increased in height, width, and stroke.

(5) The directional indicator shall be located at the end of the sign for the direction indicated.



FIGURE 7.10.6.2.1 Chevron-Type Indicator.

7.10.6.2.2 The requirements of 7.10.6.2.1 shall not apply to approved existing signs.

7.10.6.3* Level of Illumination. Externally illuminated signs shall be illuminated by not less than 5 ft-candles (54 lux) at the illuminated surface and shall have a contrast ratio of not less than 0.5.

NFPA 101[®] – Life Safety Code[®] 2006

7.10.7 Internally Illuminated Signs.

7.10.7.1 Listing. Internally illuminated signs shall be listed in accordance with UL924, *Standard for Emergency Lighting and Power Equipment*, unless they meet one of the following criteria: (1) They are approved existing signs. (2) They are existing signs having the required wording in legible letters not less than 4 in. (100 mm) high. (3) They are signs that are in accordance with 7.10.1.3 and 7.10.1.6.

7.10.7.2* Photoluminescent Signs. The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be areliable light source as determined by the authority having jurisdiction. The charging light source shall be of a type specified in the product markings.

7.10.8 Special Signs.

7.10.8.1 Sign Illumination.

7.10.8.1.1 Where required by other provisions of this *Code*, special signs shall be illuminated in accordance with 7.10.5, 7.10.6.3, and 7.10.7.

7.10.8.1.2 Where emergency lighting facilities are required by the applicable provisions of Chapter 12 through Chapter 42, the required illumination of special signs shall additionally be provided under emergency lighting conditions.

7.10.8.2 Characters. Special signs, where required by other provisions of this *Code*, shall comply with the visual character requirements of ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities*.

7.10.8.3* No Exit.

7.10.8.3.1 Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified by a sign that reads as follows:



7.10.8.3.2 The NO EXIT sign shall have the word NO in letters 2 in. (51 mm) high, with a stroke width of 3/8 in. (9.5 mm), and the word EXIT in letters 1 in. (25 mm) high, with the word EXIT below the word NO, unless such sign is an approved existing sign.

7.10.8.4 Elevator Signs. Elevators that are a part of a means of egress (*see 7.2.13.1*) shall have the following signs with a minimum letter height of 5/8 in. (16 mm) posted in every elevator lobby: (1)*Signs that indicate that the elevator can be used for egress, including any restrictions on use (2)*Signs that indicate the operational status of elevators.

7.10.9 Testing and Maintenance.

7.10.9.1 Inspection. Exit signs shall be visually inspected for operation of the illumination sources at intervals not to exceed 30 days or shall be periodically monitored in accordance with 7.9.3.1.3.

7.10.9.2 Testing. Exit signs connected to or provided with a battery-operated emergency illumination source, where required in 7.10.4, shall be tested and maintained in accordance with 7.9.3.



NFPA 70 - National Electrical Code[®] 2005

ARTICLE 700 Emergency Systems

I. General

700.1 Scope

SAFETY CODES

The provisions of this article apply to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination, power, or both, to required facilities when the normal electrical supply or system is interrupted.

Emergency systems are those systems legally required and classed as emergency by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination, power, or both, to designated areas and equipment in the event of failure of the normal supply or in the event of accident to elements of a system intended to supply, distribute, and control power and illumination essential for safety to human life.

FPN No. 1: For further information regarding wiring and installation of emergency systems in health care facilities, see Article 517.

FPN No. 2: For further information regarding performance and maintenance of emergency systems in health care facilities, see NFPA 99-2002, Standard for Health Care Facilities.

FPN No. 3: Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

FPN No. 4: For specification of locations where emergency lighting is considered essential to life safety, see NFPA 101®-2003, Life Safety Code®.

FPN No. 5: For further information regarding performance of emergency and standby power systems, see NFPA 110-2002, Standard for Emergency and Standby Power Systems.

700.2 Application of Other Articles

Except as modified by this article, all applicable articles of this Code shall apply.

700.3 Equipment Approval

All equipment shall be approved for use on emergency systems.

700.4 Tests and Maintenance

(A) **Conduct or Witness Test** The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward.

(B) **Tested Periodically** Systems shall be tested periodically on a schedule acceptable to the authority having jurisdiction to ensure the systems are maintained in proper operating condition.

(C) **Battery Systems Maintenance** Where battery systems or unit equipments are involved, including batteries used for starting, control, or ignition in auxiliary engines, the authority having jurisdiction shall require periodic maintenance.

(D) **Written Record** A written record shall be kept of such tests and maintenance.

(E) **Testing Under Load** Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided. FPN: For testing and maintenance procedures of emergency power supply systems (EPSSs), see NFPA 110-2002, Standard for Emergency and Standby Power Systems.

700.8 Signs

(A) **Emergency Sources** A sign shall be placed at the service entrance equipment, indicating type and location of on-site emergency power sources.

Exception: A sign shall not be required for individual unit equipment as specified in 700.12(F).

(B) **Grounding** Where the grounded circuit conductor connected to the emergency source is connected to a grounding electrode conductor at a location remote from the emergency source, there shall be a sign at the grounding location that shall identify all emergency and normal sources connected at that location.

II. Circuit Wiring

700.9 Wiring, Emergency System

(A) **Identification** All boxes and enclosures (including transfer switches, generators, and power panels) for emergency circuits shall be permanently marked so they will be readily identified as a component of an emergency circuit or system.

(B) **Wiring** Wiring of two or more emergency circuits supplied from the same source shall be permitted in the same raceway, cable, box, or cabinet. Wiring from an emergency source or emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment, unless otherwise permitted in (1) through (4):

(1)Wiring from the normal power source located in transfer equipment enclosures

(2)Wiring supplied from two sources in exit or emergency luminaires (lighting fixtures)

(3)Wiring from two sources in a common junction box, attached to exit or emergency luminaires (lighting fixtures)

(4)Wiring within a common junction box attached to unit equipment, containing only the branch circuit supplying the unit equipment and the emergency circuit supplied by the unit equipment

(C) **Wiring Design and Location** Emergency wiring circuits shall be designed and located so as to minimize the hazards that might cause failure due to flooding, fire, icing, vandalism, and other adverse conditions.

(D) **Fire Protection** Emergency systems shall meet the additional requirements in 700.9(D)(1) and (D)(2) assembly occupancies for not less than 1000 persons or in buildings above 23 m (75 ft) in height with any of the following occupancy classes: assembly, educational, residential, detention and correctional, business, and mercantile.

(1) **Feeder-Circuit Wiring** Feeder-circuit wiring shall meet one of the following conditions:

- (1) Be installed in spaces or areas that are fully protected by an approved automatic fire suppression system
- (2) Be a listed electrical circuit protective system with a mini mum 1-hour fire rating
- (3) Be protected by a listed thermal barrier system for electri cal system components
- (4) Be protected by a fire-rated assembly listed to achieve a minimum fire rating of 1 hour
- (5) Be embedded in not less than 50 mm (2 in.) of concrete

(6) Be a cable listed to maintain circuit integrity for not less than 1 hour when installed in accordance with the listing requirements

(2) **Feeder-Circuit Equipment** Equipment for feeder circuits (including transfer switches, transformers, and panelboards) shall be located either in spaces fully protected by approved automatic fire suppression systems (including sprinklers, carbon dioxide systems) or in spaces with a 1-hour fire resistance rating.

FPN: For the definition of occupancy classification, see Section 6.1 of NFPA 101-2003, Life Safety Code.

V. Emergency System Circuits for Lighting and Power

700.15 Loads on Emergency Branch Circuits

No appliances and no lamps, other than those specified as required for emergency use, shall be supplied by emergency lighting circuits.

700.16 Emergency Illumination

Emergency illumination shall include all required means of egress lighting, illuminated exit signs, and all other lights specified as necessary to provide required illumination.

Emergency lighting systems shall be designed and installed so that the failure of any individual lighting element, such as the burning out of a light bulb, cannot leave in total darkness any space that requires emergency illumination.

Where high-intensity discharge lighting such as high- and low-pressure sodium, mercury vapor, and metal halide is used as the sole source of normal illumination, the emergency lighting system shall be required to operate until normal illumination has been restored.

Exception: Alternative means that ensure emergency lighting illumination level is maintained shall be permitted.

700.17 Circuits for Emergency Lighting

Branch circuits that supply emergency lighting shall be installed to provide service from a source complying with 700.12 when the normal supply for lighting is interrupted. Such installations shall provide either of the following:

(1)An emergency lighting supply, independent of the general lighting supply, with provisions for automatically transferring the emergency lights upon the event of failure of the general lighting system supply

(2) Two or more separate and complete systems with independent power supply, each system providing sufficient current for emergency lighting purposes

Unless both systems are used for regular lighting purposes and are both kept lighted, means shall be provided for automatically energizing either system upon failure of the other. Either or both systems shall be permitted to be a part of the general lighting system of the protected occupancy if circuits supplying lights for emergency illumination are installed in accordance with other sections of this article.

700.18 Circuits for Emergency Power

For branch circuits that supply equipment classed as emergency, there shall be an emergency supply source to which the load will be transferred automatically upon the failure of the normal supply.

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📜 LITHONIA LIGHTING

Per LITHONIA EMERGENCY

Drop

Tables

Voltage

The following information is provided to assist in planning layouts for emergency lighting systems. The National Electrical Code[®] limits voltage drop to a maximum of 5 percent of nominal. Thus, circuit runs must be of sufficient size to maintain operating voltage when remote fixtures and/or exit signs are connected to the emergency lighting equipment. The table below shows the length of wire run based on system voltage, wire gauge and total wattage on the run.

Formula: As per NEC® standards,

$$V_{D} = \frac{2 x L x I x R}{1000}$$

Where: L =length of run in feet

- I = current
- R = resistance of material at 75°C
- $V_{D} = voltage drop$

Example 1:

A 12-volt system using a 10-gauge wire will operate four 12-watt lamps. Total watts on the wire run is 48, length of run from table is 70 feet.

Longer Wire Runs

If loads are uniformly spaced along circuit path (equal watts, equal distances), lengths in the table can be increased by certain values.

Example 2:

Remote heads from *Example 1* will be uniformly spaced. Multiplier is 1.6 for four fixtures. Maximum permissible length of wire run is 70' x 1.6 or 112'.

Number of fixtures:	2 1 2 2	3 15	4	5
Multiplier	1.55	1.5	1.0	1.07

To determine multiplier for six or more fixtures, use the following formula:

Number of fixtures = n

Multiplier =
$$\frac{2n}{n+1}$$

		6-VOLT SYSTEM						
			Wire siz	ze .				
Total		length	of wire r	un (feet)				
watts	12	10	8	6	4			
8	67	106	169	268	350			
10	53	85	135	214	280			
12	44	70	112	178	234			
13	41	65	110	165	216			
14	38	60	96	153	200			
16	33	53	84	134	175			
18	30	47	75	120	156			
20	26	42	67	107	140			
21	25	40	64	102	134			
24	22	35	56	89	117			
25	21	32	54	86	112			
30	18	28	45	71	93			
35	15	24	39	62	80			
36	15	24	38	61	97			
40	13	21	33	53	70			
48	11	17	28	44	58			
50	10	17	27	43	56			
54	10	16	26	41	65			
60	9	14	22	36	47			
75	8	11	18	29	37			
100	6	9	14	22	28			
125	4	6	10	17	22			
150	3	5	9	14	19			
175	3	4	7	12	16			
200	2	4	6	10	14			
225	2	3	6	9	12			
250	2	3	5	8	11			
300	1	2	4	7	9			
400	1	2	3	5	7			
450	1	1	3	4	7			

		12-VOL	T SYSTEM	Λ	
			Wire siz	ze	
Total		length	of wire I	run (feet,)
watts	12	10	8	6	4
8	267	425	675	1,073	1,707
10	213	339	540	858	1.366
12	178	283	450	715	1,138
13	165	260	415	660	1,050
14	152	242	385	613	975
16	133	212	337	536	853
18	110	190	300	475	760
20	106	169	270	429	683
21	101	161	257	408	650
24	89	141	225	357	569
25	85	136	215	340	540
30	71	112	180	285	455
35	61	97	154	245	390
36	61	97	154	244	388
40	53	84	135	214	341
48	44	70	112	178	284
50	42	68	108	170	275
54	40	64	102	163	259
60	35	52	90	140	225
75	29	45	72	114	182
100	21	34	54	86	137
125	17	27	43	68	109
150	14	23	36	57	91
175	12	19	30	49	78
200	10	17	27	43	68
225	9	15	24	38	60
250	8	14	21	34	55
300	7	11	18	28	45
400	5	8	13	21	34
450	4	8	12	19	30

	24-VOLT SYSTEM							
			Wire siz	ze .				
Total		length	of wire r	un (feet,)			
watts	12	10	8	6	4			
8	1,068	1,698	2,701	4,293	6,830			
10	854	1,358	2,161	3,435	5,464			
12	712	1,132	1,801	2,862	4,553			
13	660	1,040	1,668	2,640	4,200			
14	610	970	1,543	2,453	3,902			
16	534	849	1,350	2,146	3,415			
18	440	760	1,200	1,900	3,040			
20	427	679	1,080	1,717	2,732			
21	407	647	1,029	1,635	2,601			
24	356	566	900	1,431	2,276			
25	340	544	860	1,360	2,160			
30	284	448	720	1,140	1,810			
35	244	388	616	980	1,560			
36	242	386	614	976	1553			
40	213	339	540	858	1,366			
48	178	283	450	715	1,138			
50	168	272	432	680	1,100			
54	162	257	410	651	1,035			
60	140	208	360	560	900			
75	116	180	288	456	728			
100	84	136	216	344	548			
125	68	108	172	274	437			
150	56	92	144	228	364			
175	48	77	123	196	312			
200	40	68	108	172	272			
225	37	60	96	152	242			
250	32	52	84	136	220			
300	26	44	72	112	180			
400	21	34	54	85	136			
150	10	20	40	76	120			

🖊 LITHONIA LIGHTING

Outdoor Emergency Lighting Products

Traditional emergency lighting and exit signs have been primarily focused on guiding the interior occupants of a building to the nearest exit in the event of an emergency. Today, an additional emphasis is being placed on getting occupants to and along a path of safety once they are out of the building.

While the code is unclear on what constitutes a pathway and the definition of "the means to a public way", local authorities having jurisdiction over code enforcement and compliance have begun to broaden their interpretation of the Life Safety Code® to include some elements of outdoor emergency lighting.

Lithonia Lighting provides a complete list of solutions for outdoor emergency applications, including both normally on outdoor fixtures that switch to emergency mode when needed, and normally off fixtures designed only to provide emergency lighting.

Normally Off (Dedicated) Fixtures

These dedicated normally off fixtures include both stand-alone emergency lighting units and remote lamp heads. Both offer their own unique advantages.

Remote lamp heads offer advantages such as lower initial cost, lower maintenance cost and better aesthetics due to their small size. However, a battery source is required for operation.

Stand-alone emergency lighting units come equipped with a battery and can be less expensive if the application requires a small number to meet light levels.

Stand-Alone Emergency Lighting Units

Stand-alone unit equipment also can be used as a power source. Damp and wet location emergency lighting products are available (see chart below).



INDX shown

Fixture		Description	Wet ¹	Damp ²	NEMA 4X ³	Cold weather⁴
AFN DB EXT		Architectural die-cast with xenon lamp				-18° C to 50° C
IND618-6100	RI	Industrial emergency unit				-40° C to 55° C
IND1236-12450	6 6 6	with krypton lamp				(UIT option)
IND24100-24150	- Cal					
INDX618-6100		Industrial NEMA 4X emergency				-40° C to 55° C
INDX1236-12125		unit with krypton lamp				(ULT option)
INDX24100						(,
ELM DL		Thermoplastic emergency unit				
ELM2 DL		with krypton lamp		-		
ELM618-654 DL	0-0	High-capacity thermoplastic				
ELM1254-1272 DL		with krypton lamp				

Remote Lamp Heads



AFN shown

				Available	(bla	ank) Not available
Fixture		Description	Wet	Damp	NEMA 4X/ IP66	Cold weather
ELA AFNR DB	\bigcirc	Architectural die-cast remote w/xenon lamp				-40° C to 60° C
ELA OMC	S	Outdoor mini cylinder die-cast remote w/halogen lamp				
ELA CL		Recessed round outdoor core remote w/halogen lamp				
ELA OSL		Recessed outdoor step light w/halogen lamp				
ELA NX		Gasketed, wet location remote w/ incandenscent or halogen lamp				
ELA WP		Weatherproof aluminum remote w/incandenscent lamp				
nia unit aquinment or exit sign	a gowith additional canacity	can be used to nower any remote-mounted lamp. These ur	nite or ovite con	he mounted in	doors while leads ca	n he run to the outdoors

NOTES 1 Direct exposure to rain or water.

Lith

4 Cold weather listing: -18 to 50 C(AFN): -40 to 60 C (ELA AFNR DB): or

-40 to 55 C (IND/INDX).

2 Subject to moisture; fixture must be mounted under a canopy.

3 NEMA 4X hosedown/dustprooflisting.

Exit signage with additional capacity also can be used to run remote

heads (e.g., Signature® with ELA LEHO or LHQM).

LITHONIA EMERGENCY 466

www.lithonia.com

Normally On Fixtures

Lithonia's building-mounted products are available with several options to provide attractive and efficient outdoor emergency egress lighting solutions.

Integral emergency battery packs (ELDW) or operation with a remote battery pack (ELDWR) for use with compact fluorescent lamps, 12 volt DC lamps (DC12) powered by a remote battery source or 120 volt AC lamps (EC) on an emergency circuit all are available today. For specific product and technical information, please refer to www.lithonia.com.

ELDW and ELDWR

ELDW – Integral battery pack that operates compact fluorescent lamps at a reduced lumen output. ELDWR - Remote battery pack ready for compact fluorescent lamps. Battery pack (by others) mounted external to the building mounted luminaire. Pilot light/test switch mounting plate and additional wiring included to connect with the external battery pack provided separately.

			Product families												
			FIU	uuctianniles											
			EL	DW		ELDWR ¹									
Lamp options			Gateway®	Architectural		VGRxC									
(# of lamps/	Lamp start	Initial ELDW	VGR1C, VGR2C,	sconce	Aeris™	WSR/T/Q									
/wattage)	temp. °F (°C)	lumens	VRG4C, VGR5C	WSR, WST, WSQ	ASW	ASW									
13DTT	-5° (-20°)	350													
2/13DTT	-5° (-20°)	425													
18DTT	-5° (-20°)	475													
2/18DTT	-5° (-20°)	575													
26DTT	-5° (-20°)	600													
2/26DTT	-5° (-20°)	700													
26TRT	-5° (-20°)	450													
2/26TRT	-5° (-20°)	725													
32TRT	-5° (-20°)	575													
2/32TRT	-5° (-20°)	750													
42TRT	-5° (-20°)	750													
2/42TRT	-5° (-20°)	N/A													
NOTEC.						Available									



NOTES:

1 Initial ELDWR lamp lumens depends on the battery pack used.

Add ELDW or ELDWR to product family catalog number. For additional information, see page 542.

DC Options

The DC option provides an auxiliary emergency socket for either a 20- or 35-watt, 12-volt DC bayonet base MR11 lamp for use with separate

external 12-volt emergency power source (provided by others).

(blank)

Not available

		Product families							
	Initial		Architectural						
DC lamp option suffix ¹	lumens	Contour®	sconce	Aeris ^{™2}					
(# of lamps/wattage)	(per lamp)	TWAC	WSR, WST, WSQ	ASW					
DC2012 (1) 20W lamp	350								
2DC2012 (2) 20W lamps	350								
DC12 (1) 35W lamp	660								
2DC12 (2) 35W lamps	660								
				Available					
NOTES:			(blank)	Not available					



2 Consult factory for wattage and reflector availability.

For additional information, see page 542.



TWAC shown



Die-Formed Steel Emergency Lighting Units

® Titan

EMERGENCY LIGHTING UNITS



NOTES:

- 1 ELT50 unit uses ELT125 housing when ordered with VM, AM or TD options.
- 2 AM and VM must be ordered together.

For additional lamp heads and remote fixtures, see pages 449-450. For spacing guidelines, see page 455. For accessories, see page 451.

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for general/light industrial environments requiring a steel housing.

Features

True glass sealed-beam lamps in polycarbonate lamp housings (metal housings standard on Chicago units).

Housing is die-formed steel, finished with corrosion-resistant instrument tan enamel.

Ordering Information

Maintenance-free batteries. Lead-calcium standard, nickel-cadmium optional.

Titan® Series units will power a variety of remote devices up to rated wattage of unit.

Chicago Approved — ELT24C and ELT36C meet City of Chicago requirements.

Listings

UL Listed. NOM Certified (see Options).

Example: ELT24 H LD



(blank) Option not available

Option descriptions

- Maintenance-free nickel-cadmium batteries Ν
- R0 Less lamp heads
- 8W halogen lamps (6W on ELT24) н
- H1212 12W/12V halogen lamps
 - Metal lamp heads MT
 - AM Ammeter²
 - Voltmeter² VM
 - LD Load disconnect switch
 - TD Integral time delay (12V only)
- NOM NOM Certified

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted. For details on accessories, batteries and remote fixtures, see pages 450-451.



ELT 16/24/24C/36/36C/501 Width: 11-5/8(295) Depth: 3-5/8(92) Height: 7-7/8 (200), 14 (356) with lamps ELT 16/24/24C: 12.5 lbs.(5.7 kgs.) Weight: ELT 36/36C/50: 17 lbs.(7.7 kgs.)



ELT125/180/275 Width: 18(457) Depth: 9(229) Height: 12 (305), 18 (457) with lamps ELT 125: 43.5 lbs.(19.7 kgs.) Weight: ELT 180: 58.5 lbs.(26.5 kgs.) ELT 275: 61.5 lbs.(27.9 kgs.)

Electrical Application Data												
		AC Input		Output		Output Watts						
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs	4 hrs				
EI T16	120	.167	20	6	16	12	8	6				
ELIIO	277	.072	20	6	16	12	8	6				
ELT24	120	.167	20	6	24	24	16	12				
ELIZ4	277	.072	20	6	24	24	16	12				
ELT24C	120	.167	20	6	24	24	16	12				
ELIZ4C	277	.072	20	6	24	24	16	12				
ELT26	120	.167	20	6	36	36	24	18				
LLIJU	277	.072	20	6	36	36	24	18				
ELT26C	120	.167	20	6	36	36	24	18				
LLIJOC	277	.072	20	6	36	36	24	18				
EI T50	120	.250	30	12	50	37	25	18				
	277	.108	30	12	50	37	25	18				
EI T125	120	.250	30	12	125	93	67	46				
	277	.108	30	12	125	93	67	46				
EI T190	120	.287	50	12	180	135	90	67				
ELIIOV	277	.125	50	12	180	135	90	67				
FI T275	120	.287	50	12	275	206	137	103				
221275	277	.125	50	12	275	206	137	103				

Hazardous Location Emergency Lighting Units

Z – Class I,

Div.2

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for Class I, Division 2 environments.

Features

Impact-resistant, fiberglass-reinforced polyester housing. Gray with stainless steel hardware. Viewthrough window allows easy monitoring of AC indicator and optional voltmeter and ammeter.

Housing suitable for use in NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H2 & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 8W tungsten lamps for 6V units and 12W tungsten lamps for 12V units are standard.

Ordering Information

Family Voltage⁵ No. of lamps Lamp type 6V lead-calcium (blank) Two PAR36 sealed-beam, 6-volt 120/277 (blank) R1 0ne (blank) 8W/6V incandescent Z625 25 watts¹ RO N1806 18W/6V incandescent None Z650 50 watts¹ N2506 25W/6V incandescent Z6100 100 watts^{2,3} N3006 30W/6V incandescent Z6125 125 watts³ H0806 8W/6V halogen 6V nickel-cadmium H1206 12W/6V halogen Z625N 25 watts^{1,4} NOTES: PAR36 sealed-beam, 12-volt Z650N 50 watts^{1,4} In addition to UL 924, units are listed to 844, 1203 and 1604. 1 12W/12V incandescent (blank) 12V lead-calcium 2 Includes temperature compensated charger N1812 18W/12V incandescent Z1225 25 watts¹ Self-diagnostics not available on Z6100, Z6125 and Z12120. 3 N2512 25W/12V incandescent Nickel-cadmium units are the only units listed for Class II, Div. 2, Groups F Z1250 50 watts^{1,2} 4 N3012 30W/12V incandescent & G applications. Z12120 120 watts³ H0812 8W/12V halogen Special voltages available; consult factory. 5 12V nickel-cadmium H1212 12W/12V halogen 6 Option configurations may impact UL listing. Consult factory for specifics. Z1225N 25 watts1,4 For matching remote lamp head or other remote fixture options, see page 449. Z1250N 50 watts^{1,4} Z1275N 75 watts^{1,4} 100 watts^{1,4} Z12100N Z12125N 125 watts^{1,4}

Optional shatter-resistant shield is designed for

Listings

use in food service areas.

UL Listed.

Self-diagnostics
with alarm ³
Voltmeter
Ammeter
Time delay 120 VAC
Time delay 277 VAC
Shatter-resistant lamp head shield

Options⁶ SD Self-diagnostics³

Example: **Z650 N2506 SD**

Dimensions are shown in inches (millimeters) unless otherwise noted.

eration		Standard		Watts to 87-1/2%								
DC		Lamp		of Rated V	oltage							
oltage	Unit	Head	1 ½ hrs.	2hrs.	4hrs.	8hrs.						
	Z625	N0806	25	19	12	-						
	Z650	N0806	50	37.5	24	8.5						
6	Z6100	N0806	100	75	48	17						
0	Z6125	N0806	125	94	60	21.5						
	Z625N	N0806	25	19	12	-						
	Z650N	N0806	50	37.5	24	8.5						
	Z1225	N1212	25	19	12	-						
	Z1250	N1212	50	37.5	24	8.5						
	Z12120	N1212	120	90	58	20						
10	Z1225N	N1212	25	19	12	-						
12	Z1250N	N1212	50	37.5	24	8.5						
	Z1275N	N1212	75	56.5	28.5	15						
	Z12100N	N1212	100	75	48	17						
	Z12125N	N1212	125	94	60	21.5						

Electrical
Input power requirements
120 VAC – .58 amps max., 65 watts max
277 VAC – .27 amps max., 68 watts max

Shij	oping weight:
Z625	18 lbs. (8 kgs.)
Z650	18 lbs. (8 kgs.)
Z6100	27 lbs. (12 kgs.)
Z6125	29 lbs. (13 kgs.)
Z625N	16 lbs. (7 kgs.)
Z650N	18 lbs. (8 kgs.)
Z1225	29 lbs. (13 kgs.)
Z1250	29 lbs. (13 kgs.)
Z12120	22 lbs. (10 kgs.)
Z1225N	18 lbs. (8 kgs.)
Z1250N	18 lbs. (8 kgs.)
Z1275N	20 lbs. (9 kgs.)
Z12100N	29 lbs. (13 kgs.)
Z12125N	29 lbs. (13 kgs.)

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EMERGENCY LIGHTING UNITS

🖊 LITHONIA LIGHTING

445

0p

V

Hazardous Location Emergency Exit and Combo

LZ – Class I, Div. 2



Ordering Information

Intended Use

Combo and EL N exit provide 90 minutes of operation for the rated wattage upon loss of AC power. Both are designed for Class I, Division 2 and Class II, Division 2 environments.

Features

Impact-resistant, fiberglass reinforced polyester housing. Gray with stainless steel hardware and clear polycarbonate cover. Includes one-piece formed gasket and corrosion-resistant hardware. Standard internal or external mounting feet for installation flexibility.

Housing suitable for NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H_2 & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 6W halogen lamps standard.

Optional shatter-resistant shield is designed for use in food-service areas.

Non-diffuse LEDs provide maximum face illumination.

LED life up to 25 years based on continuous operation.

Listings

UL Listed.

Example: LZ S 1 R 120/277 EL N SD

Example: LHZ S 1 R 120/277 R1 SD



1 Other voltages and frequencies available; consult factory.

Ordering Information

No. of faces Family Face type Voltage² Lamp type Options³ LHZ 6V, 6W lead-calcium S Stencil 1 Single PAR36 sealed beam 120/277 Dual SD Self-diagnostics batterv voltage (blank) 6W/6V halogen SDA Self-diagnostics with alarm LHZ612 6V, 12W lead-calcium TD1 Time delay 120 VAC N0806 8W/6V incand. battery N1806 18W/6V incand. TD2 Time delay 277 VAC Housing color LED color Lamp heads¹ LHZ624 6V, 24W lead-calcium N2506 25W/6V incand. Shatter-resistant lamp head SRS battery (blank) Gray R Red (blank) 2 heads N3006 30W/6V incand. shield LHZ660 6V, 60W lead-calcium R1 1 head HO806 8W/6V halogen G Green batterv RO No heads H1206 12W/6V halogen

Dimensions are shown in **inches (millimeters)** unless otherwise noted.



Electrical (EXIT)

Input power requirements at 120V AC (red and green): AC only = 9.5W, emergency operation = 11W, .90 powerfactor.

Electrical (COMBO)

Input power requirements at 120VAC: red=25.2W max., green=25.2W max.

- NOTES:
- 1 LHZ has 6W total capacity. Will be shipped with one 6W lamp head unless R0 option is selected.
- 2 Other voltages and frequencies available; consult factory.
- 3 Some option configurations may impact UL listing; consult factory for details.

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www.lithonia.com, keywords: LZ and LHZ

46 LITHONIA EMERGENCY

Explosion-Proof Emergency Lighting Units

ZX – Class I, Copper-free cast-aluminum enclosure withstands explosions generated by internal arc without prop-**Div.** 1 Example: ZX614N TD1



NOTES:

- 1 Incandescent emergency lamp operation only.
- 2 Compatible only with ELA ZX remotes using 7W compact fluorescent lamps. Will not operate incandescent lamps. Maximum remote mounting distance is 8'.

Intended Use

Suitable for use in Class I, Div. I, Groups C & D, Zones 0, 1, & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div.

2, Groups C & D, Zone 2, Groups IIA, IIB + H, & IIC; Class II, Div.1, Groups E, F & G; Class I, Div. 2, Groups

Voltage³

Shipping weight: ZX614N – 63 lbs. (28 kgs.)

ZX628N - 65 lbs. (29 kgs.)

ZX1250N-67 lbs. (30 kgs.)

ZX685-69lbs.(31kgs.)

120/277

(blank)

F&G and Class III hazardous location areas.

Ordering Information

Family

6V lead-calcium

ZX685 85 watts

6Vnickel-cadmium

ZX614N 14 watts² ZX628N 28 watts

12V nickel-cadmium

ZX1250N 50 watts

```
3 Some special voltages available; consult factory.
```

Intended Use

Suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1 & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H, & IIC; Class II, Div. 1, Groups E, F & G; Class I, Div. 2, Groups F&G and Class III hazardous location areas.

Features

Copper-free, cast-aluminum enclosure withstands pressure of explosions generated by in-

Ordering Information



www.lithonia.com, keywords: ZX and ELA ZX

Features

Listings

Options

(Order separately)

Time delay 120 VAC

Time delay 277 VAC

(1) **ZX614** – 14 watt power pack for

exclusive use with compact fluores-

ELA ZX CF0706 PM - 7-watt com-

pact fluorescent lamp fixture. (1) ELA EAK – Exit accessory kit.

ELA ZX DRH 12W/12V directional head

sistant, epoxy powder coat finish.

id conduit (three hole plugs provided).

ternal arc without propagating them into haz-

ardous atmosphere. Enclosure has corrosion-re-

Top- and wall-mount fixtures have a universal

junction box with four tapped holes for 3/4" rig-

Listings

UL Listed. Meets UL 924 and 844 illumination

Example: ELA ZX H0706 WM

The sample application consists of:

cent fixtures.

(2) ELA SEA – Elbow arms.

agating them into hazardous atmosphere.

UL Listed.

KLD

TD1

TD2

(2)

Accessories

standards.

6" (152) |3.5 |(89 (114)(254) ELA ZX DRH Accessory

Explosion-Proof Remotes

ELA ZX –

Class I, Div. 1



Pendant Ceilina 14.3 (362) 14.9 (378) + 7.3 (185) + 7.3 -(185) Wall Accessory 10.4 (264 ////// (362) .8 (20) ⊢ 7.3 (185)

🖊 LITHONIA LIGHTING

17.8 (452)

447

EMERGENCY LIGHTING UNITS

Hazardous Location Emergency Lighting Remotes



LITHONIA EMERGENCY

Remote Lamp Heads

Ordering Information – Lamp heads on this page can be ordered as separate fixtures, or as individual or twin remote heads with a mounting plate.

To Order Remotes: Order as separate line items.

Ordering Information



	Lamp head style
(blank)	Standard PAR36
MR24	Multi-faceted reflector
CDS	Compact designer square
SSB	Square PAR36
IND	Indura®

NX Sealed and gasketed PAR36

Metal PAR36 MT

Hazardous PAR36 (Class I, Division II) Ζ

EXAMPLE: ELA IND H2012

Lamp type Select from lamp compatibility chart on page 450. (For Indura® sealed beam lamps add suffix S to lamp nomenclature. Example: H35I2**S**)

EMERGENCY LIGHTING UNITS

Standard PAR36



(blank) 4-3/4" (121) single head, Width: 13" (330) twin heads Height: 7-3/4"(197) Depth: 5-1/16"(129) Standard color: Deserttan

Indura[®] Remote



	IND
Width:	5-7/8" (149) single head,
	7-1/8" (181) twin heads
Height:	5-1/8"(130)
Depth:	5-3/8"(137)
Standard color:	Gray head and mounting
	plate, blue lamp housing

Mounting Plate Dimensions for MT: Single Head = 2-3/4 (70) W X 4-1/2 (115) H Two Head = 4-9/16 (116) W X 4-1/2 (115) H

Mounting Plate Dimensions for IND: 5-1/8 (130) W X 4 -11/16(119) H

Mounting Plate for MR24: 6-7/8 (175) W X 4-5/8 (117) H

Mounting Plate for All Others: 3-1/8 (79) W X 5 (127) H

Multi-Faceted Reflector



MR24 Width: 4-5/8" (117) single head, 6-5/8" (168) twin heads Height: 6-5/8" (168) single head, 4-1/2" (114) twin heads Depth: 2-1/2"(63) White Quantum® match Standard color:

Sealed & Gasketed PAR36



	11/1
Width:	4-3/4" (121) single head,
	13" (330) twin heads
Height:	7-3/4"(197)
Depth:	5-1/16"(129)
Standard color:	Gray





CDS Width: 3-7/8" (98) single head, 10-5/8" (270) twin heads Height: 4-1/4"(108) Depth: 4-1/8"(107) Standard color: lvory white

Metal PAR36



4-5/8" (118) single Width: head, 10-1/2" (267) twin heads 5-1/8"(130) Height: Depth: 6-1/2:(165) Standard finish Chrome Optional finish: White





4-3/4" (121) single head, 10-1/2" (267) twin heads 5"(127) 4-1/2"(115) Standard color: White

Hazardous PAR36

Width:

Height:

Depth:

Width:

Height:

Depth:



Ζ 4-3/4" (121) single head, 13" (330) twin heads 7-3/4"(197) 5-1/16"(129) Standard color Gray Z Series match

LITHONIA EMERGENCY

NOTES: For photometric information, visit our website at www.lithonia.com

Consult factory for additional lamp availability.

Dimensions are shown in inches (millimeters) unless otherwise noted.

www.lithonia.com





Remote Lamp Heads

	Composite Lamps																			
						6 Volt				12 Volt						24 Volt				
	Incandescent Halogen						Kry	pton		Incandesce	nt	Halogen			Krypton	Incano	lescent	Halogen		
Lamp Type	N0606	N0806	N0906	H0606	H0806	H1006	H1206	H2006	K0606	K0906	N0912	N1212	N1812	H0812	H1212	H2012	K0912	N0924	N1824	H2024
Wattage	6W	8W	9W	6W	8W		12W	20W	6W	9W	9W	12W		8W	12W	20W	9W	9W	18W	20W
MR24																				
CDS																				
IND																				
																			Δv	ailahle

(blank) Not available

Sealed-Beam Lamps

	6 Volt								12 Volt								24 Volt	
	Incandescent				Halogen			Incandescent					Hal	ogen		Incand.		
Lamp type	N0806	N1206	N1806	N2506	H0606	H0806	H1206	H2006	N1212	N1812	N2512	N3512	N5012	H0812	H1212	H3512	H5012	N5024
Wattage	8W	12W	18W	25W	6W	8W	12W		12W	18W	25W	35W	50W	8W	12W	35W	50W	50W
SSB																		
IND																		
NX																		
Standard PAR36																		
MT																		
																		Available
																	(blank)	Not available



NOTES:

1 Without heads.

2 Measurement at smallest point of guard.

(blank) Not available

Unit Accessories/Replacement Batteries

Vandal Shield ELA VS2 ELA VS	¹ /s," thic thick (E ELM ant ELM627 (ELAVS2 (ELAVS2 VS).	ck, (ELAVS2) high-i LAVS) transparent eld. Fits all Lithou d ELM2 (ELA VS), f. ELM654, ELM12 2) units. 10"H x 22' 2); 8 ¹ /2"H x 15" W	mpact or ³ /16" t polycarbon- nia Quantum and ELM618, 54, ELM1272 'W x 9-3/4" D x 4 ³ /4" D (ELA	Low Voltage R ELA LVR	Relay Corvolution and Corvolut	nverts any incande tage (12V) downl ximum) to an e wnlight when rem 2V Lithonia emerg unit (ELT125, etc	escent low ight (75W Le mergency ioted from ency light- .).	mote Test Switch ss Pilot Light A RTLP		Provides remote testing capa- bility to all Lithonia Lighting unit equipment, exit signs, fluores- cent battery packs and emergency downlights. Mounts on standard J-box, ceiling or wall.
Mounting Shelves Indura® Accessories ELA MS4/8 ¹ ELM4, ELM10, ELAMST ² ELT125, ELT180, ELT275 ELAMST ² ELT125, ELT180, ELT24, ELT24c, ELT36, ELT36C, ELT50 ELA IND CM3 Ceiling mount kit for IND654, IND1236 and IND1254 ELA IND CM3 Ceiling mount kit for IND654, IND1236 and INDX1254 ELA IND CM3 Ceiling mount kit for INDX654, INDX1236 and INDX1254 ELA IND RM3 Prepack kit to field install third head on Indura® unit ELARTT Remote transmitter ELABS Banding strip ELA IND RHB Remote head bracket for surface-mounted j-boxes										
Replacement Batteries for Emergency Lighting Units Available (blank) Not available										
Түре	ELB 06042 lead-calcium L: 2-3/4 (70) W: 1-7/8 (48) H: 4-1/8 (102)	ELB 0607 lead-calcium L: 4 (102) W: 1-1/2 (38) H: 6 (152)	ELB 0612A lead-calcium L: 6 (152) W: 2 (51) D: 4 (102)	ELB 0614 lead-calcium L: 4-1/4 (108) W: 2-3/4 (70) H: 5-1/2 (140)	ELB 1228 lead-calcium L: 7-7/8 (198) W: 5-1/4 (133) H: 7-3/8 (187)	ELB 1255 lead-calcium L: 10-1/4 (259) W: 6-3/4 (171) D: 8-3/4 (222)	ELB 0604N nickel-cadmium L: 3-7/8 (98) W: 2-3/8 (60) H: 2-3/8 (60)	NOTES: 1 Standard colori (Example: ELA 2 Standard instru 3 Uses two batter 4 Replacement ba	NOTES: 1 Standard color is desert tan. To order white, add W to catalog number (Example: ELA W MS4/8). 2 Standard instrument tan. 3 Uses two batteries. 4 Replacement hat train careford dura® Saries 12 units (consult for the order)	
ELM/ELM2	11. + 1/0 (102)					D. 0-3/4 (222)		4 Replacement batteries are for Indura [®] Series 12 units. Consult factory for replacement batteries for previous series.		
ELM618								-		
ELM627										
ELM654			3							
ELM1254			3					-		
ELM1272			3					-		
ELSQ/ELSQM								-		
ELSQM N								-		
ELT16										

indura®/indura® 4x kepiacement Batteries*

ELB 0612A

L: 4-1/4 (108)

W: 2-3/4 (70)

H: 5-1/2 (140)

3

3

ELB 0636

L: 5-7/8 (150)

W: 6 (154)

H: 3-5/8 (93)

3

3

L: 3-7/8

W: 6 (154)

ELB1224B ELB 1208AH ELB 1228

W: 8 (205)

L: 5-7/8 (150) L: 7-7/8 (198) L: 6-3/4 (173)

ELB1228AH

H: 7-3/4 (198) H: 3-5/8 (93) H: 7-3/8 (187) H: 7-3/4 (198) H: 8-13/16 (226) H: 9-21/32 (247)

ELB 1250

3

W: 5-1/4 (133) W: 6-1/2 (166) W: 5-5/16 (136) W: 6-11/16 (171)

ELB 1255

L: 8-5/8 (221) L: 10-7/32 (262)

Available

ELB 12100

L: 12 (307)

W: 6-11/16 (171)

3

H: 9-3/4 (250) H: 3-5/8 (93)

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ELB 2412A	ELB0607NFH
(blank)) Not available

ELB 2412A	ELB0607NFH		
L: 5-7/8 (150)	L: 6-3/4 (171)		
W: 8 (205)	W: 1-1/3 (34)		
H: 3-5/8 (93)	H: 3-3/4 (95)		
		1	

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3

451

ELT16 N ELT36/36C

ELT50

ELT125

ELT275

ELR2 N

ELR2

ELR4 ELCC/ELCCT

AFN

Туре IND618/INDX618

IND654/INDX654

IND6100/INDX6100

IND1236/INDX1236

IND1254/INDX1254 IND1254ULT/INDX1254ULT

IND12100/INDX12100

IND12150/INDX12150

IND12300/INDX12300 IND12450/INDX12450

IND24100/INDX24100

IND24450/INDX24450

IND12100ULT/INDX12100ULT

IND1236ULT/INDX1236ULT

AC Power Systems

EAC IST EAC ISS



Ordering Information

Ordering Information

Intended Use

Automatic standby AC power systems for incandescent and fluorescent emergency lighting loads that provide full light output for 90 minutes of operation.

Features

Microprocessor-controlled PWM inverter with IGBT technology allows for universal compatibility.

RS232 interface option allows communication with system from remote computer. Low voltage disconnect, short circuit protection, current limiting and brown-out protection.

EAC IST:

One compact self-contained cabinet.

12-hour battery recharge. Input circuit breaker. Normally on and off output circuit breakers.

20-character display with touch pad (4x4) controls, functions and data logging.

Programmable self-diagnostic testing for 5 minutes monthly and 90 minutes annually is standard.

20 millisecond transfer time.

EAC ISS:

Stackable, modular cabinet design enabling versatile installation.

Systems 4KVA and below are self-contained. Larger systems require external, stackable battery cabinets.

Standard digital meter panel displays input/output voltage, battery voltage and output current.

24-hour battery recharge standard.

50 millisecond transfer time.

Listings

UL 924 Listed – 90 minutes of emergency operation.

Example: EAC LC IST 1350 120/120 OTA



Example: EAC LC ISS 1500 120/120 OCB

Fa	amily		Battery type	System ty	vpe VA rating ¹	Voltage ²			Options	
EAC E	Emergency AC power system	LC LC20	Lead-calcium Lead-calcium battery. 20-year life	ISS Interru	ptible 1500 2250 3000 3750 5000 6000	Input/Output 120/120 277/277 277/120 120/120-277 277/120-277	(blank <u>Batter</u> 121 <u>Electro</u> Input/) None Y IR 12-hour battery recharge nic TD Time delay (15 minute) Dutput	Miscellane FSP RMP MBYP	ous Factory start-up program Remote panel meter Maintenance bypass switch
NOTES: 1 Systems 5000VA (5KVA) or larger require external battery cabinets. 2 Consult factory for other voltages. 3 Standard 20-amp. normally on unless otherwise specified.				8000 10000 12500 16700		c c	 CB Output circuit breaker (specify quantity and am TA Output trip alarm 	RS232 nps) ³ DFC	Diagnostic interface Form "C" contact	

AC Power Systems

POWER SYSTEMS

Intended Use

An off-line AC power system for the emergency operation of HID, incandescent and fluorescent emergency lighting loads that provides full light output for 90 minutes of operation.

Features

Microprocessor-controlled PWM inverter with IGBT technology allows for universal compatibility.

Sinusoidal output waveform has <3% THD.

Off-line uninterruptable system has 2-millisecond transfer time.

Standard circuit protection: low voltage disconnect, short circuit protection, current limiting, fused battery protection, brownout protection, input circuit breaker.

Standard RS232 diagnostic interface.

Listings

UL 924 Listed – 90 minutes of emergency operation.

Ordering Information



EAC FT output ratings: 1,500 VA to 16,700	VA.						
Single phase system.							

EAC 3FT output ratings: 4,800 VA to 50,000 VA. Three-phase system.

VA rating **1500**¹

2250¹

3000¹ 3750¹ 4800 6000 8000 10000 12500 16700 24000² 33000² 40000² 50000²





Example: EAC LC 3FT 6000 120-208/120-208 FSP

Voltage ³	Options					
Input/Output	(blank)	None				
120/120 ¹	<u>Battery</u>					
277/277 ¹	12HR	12-hour battery recharge				
277/120 ¹	<u>Supervisory</u>					
120/120-277 ¹	RMP	Remote meter panel				
277/120-277 ¹	MBYP	Maintenance bypass switch ⁴				
120-208/120-208 ²	XMBYP	External maintenance bypass switch				
277-480/277-480 ²	Input/output					
	OCB	Output circuit breaker (specify quantity and amps) ⁵				
	OTA	Output trip alarm				
	Miscellaneous					
	FSP	Factory start-up program				
	DFC	Form "C" contacts				
	NOFF	Normally OFF output circuit ⁶				
	MODEM	External modem for RS232				

NOTES:

- 1 Available on FT only.
- 2 Available on 3FT only.
- 3 Consult factory for other voltage requirements. Special voltages may affect the weight, size and number of cabinets.
- 4 Standard on 3FT.
- 5 Standard 20-amp normally on unless otherwise specified.
- 6~ Normally off load cannot exceed 20% of total VA rating with any combination of HID loads.

LITHONIA EMERGENCY